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| | enrollment | communications | administration | |
| | | curriculum | degrees | |
| science | retention | faculty | building & equipment | |
| objectives | finances | teaching methods | libraries | |

17. ABSTRACT (MAX. 250 WORDS)

Self-evaluation of School of Science as regards: Objectives, evidence of stability, finance, plant, materials and equipment, library, records and reports, curriculum, faculty, instruction, administration, student enrollments 1956–57 through 1959–60, and degrees granted 1956–57 through 1958–59.

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U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Office of Education

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# *Self Evaluation Report II*

School of Science

*January 1960*

OREGON STATE COLLEGE
Corvallis, Oregon

IV-20 ED 000511

# S E L F  E V A L U A T I O N  R E P O R T  II

SCHOOL OF SCIENCE

Prepared for the

Commission on Higher Schools,

Northwest Association of Secondary and

Higher Schools

January 1960

OREGON STATE COLLEGE
Corvallis, Oregon

# NORTHWEST ASSOCIATION VISITATION: REPORT II

## School of Science

### A. Objective

1. The particular objectives of the School of Science, in addition to those outlined in Report I, are three:
   a. To provide to the students of the professional schools (including schools of Medicine, Dentistry, Optometry, Nursing and others not located on this campus) adequate education in mathematics and the natural sciences, which may be basic to their professional training. In volume, this teaching will constitute 80 per cent of our total program.
   b. To provide a complete liberal arts program, graduate and undergraduate, in all science fields, for those wishing to concentrate in those areas.
   c. To provide specialized programs, graduate and undergraduate, for those who wish a career in some particular field of science.

2. The above objectives are reviewed continuously, particularly at the annual revisions of our curricula. No other thorough-going study has been made since the state-wide study in 1929.

3. Although we have never been provided with all the funds that we felt should be available, still we have been supplied with sufficient moneys to carry on a very satisfactory program in science.

4. Non-instructional activities of the School include: The Science Research Institute: The Natural History Museum: The Seismograph Station: The Cyclotron: The Herbarium: The Electron Microscope: and the many individual research projects conducted by staff members.

### B. Evidence of Stability

1. The School of Science was founded in 1932, when the Oregon State System of Higher Education transferred all its science instruction above junior college level to the Corvallis campus. In 1942, this arrangement was relaxed, and science programs have now been allocated also to the other five schools, the Oregon State College School of Science retaining its primacy in the field.

2. The administrative head of the school since 1938 has been F. A. Gilfillan.

3. The per cent of turnover of teaching staff has varied slightly. During the past five years, the F. T. E. of the senior staff (excluding assistants and fellows) rose from 76.69 to 101.39. During that time the faculty turnover (not including assistants and fellows) was: 5.56% : 7.54% : 6.56% : 3.27% : and 5.58% respectively.

4. Enrollments (not including summer sessions and extension courses), have been:

Students majoring in Science, graduate and undergraduate:

| | |
|---|---|
| 1949-50 = 908 | 1954-55 = 796 |
| 1950-51 = 906 | 1955-56 = 912 |
| 1951-52 = 782 | 1956-57 = 1021 |
| 1952-53 = 749 | 1957-58 = 1311 |
| 1953-54 = 742 | 1958-59 = 1490 |

Total class enrollments in science courses:

| | |
|---|---|
| 1949-50 = 6757 | 1954-55 = 6396 |
| 1950-51 = 5906 | 1955-56 = 7305 |
| 1951-52 = 5398 | 1956-57 = 8317 |
| 1952-53 = 4439 | 1957-58 = 9489 |
| 1953-54 = 5633 | 1958-59 =10222 |

C. Finance

1. Funds allocated for instructional purposes, from sources other than regular sources:

| | |
|---|---|
| 1954-55 | = $ 3,000 |
| 1955-56 | = 3,000 |
| 1956-57 | = 9,480 |
| 1957-58 | = 30,545 |
| 1958-59 | = 35,891 |

2. Research funds from similar sources:

| | |
|---|---|
| 1954-55 = | $ 193,143 |
| 1955-56 = | 187,312 |
| 1956-57 = | 269,457 |
| 1957-58 = | 311,756 |
| 1958-59 = | 361,096 |

3. The student-credit-hour cost (on term credits):

| | |
|---|---|
| 1956-57 = | $ 11.26 |
| 1957-58 = | 12.42 |
| 1958-59 = | 12.30 |

D. Plant

1. The departments of Botany, Entomology, Physics and the Science Research Institute are adequately housed in modern buildings.
The department of Chemistry is housed in a building constructed for it some 20 years ago. It is not large enough.
The departments of Bacteriology, Geology, Mathematics, Natural Resources, Science Education, and Zoology, are in reconditioned buildings which are either too small, or are obsolete.
The departments of Oceanography and Statistics are temporarily housed in buildings assigned to the School of Agriculture, which is in need of that space.
Our program is being carried on fairly satisfactorily despite these handicaps. Increased enrollments will very soon make the situation much worse.

2. The greatest need is for adequate modern quarters for the departments above listed, and for adequate equipment for the laboratories. The pressure of enrollments, particularly at the graduate level, makes such provision imperative.

E. Materials and Equipment

1. Value of equipment held, and of acquisitions during past three years:

| | Acquisitions | Total Value |
|---|---|---|
| 1956-57 = | 210,628 | 1,070,261 |
| 1957-58 = | 167,500 | 1,237,761 |
| 1958-59 = | 263,707 | 1,501,468 |

2. Expenditures for instructional supplies:

1956-57 = $56,162
1957-58 = 62,693
1958-59 = 64,132

3. Major equipment items now held:

| | Value | Gift |
|---|---|---|
| Liquid air machine | $ 12,000 | |
| Ramon spectograph | 4,100 | |
| Infrared spectrometer | 15,000 | |
| Mass Spectograph | 20,000 | Tektronix Inc. |
| Electric muffle furnace | 2,000 | |
| Ultramatic gas flow counter | 4,200 | U.S. Dept. Agric. |
| Liquid Scintillation Counter | 12 ,500 | NSF |
| Gamma-ray Spectrometer | 7,000 | AEC |
| Vibrational reed electrometer | 3,000 | |
| Radio Respirometer | 2,500 | AEC |
| Paper Chromatograph | 2,500 | AEC |
| Gas Chromatograph | 2,600 | Pub. Health Serv. |
| Rapid scan Spectrophotometer | 3,050 | |
| Glass-blowing lathe | 2,000 | |
| Engine lathe | 2,000 | |
| X-Ray Apparatus | 3,000 | Bureau of Mines |
| Electron diffraction apparatus (partially completed) | 10,000 | |
| Recording Polarigraph | 2,000 | |
| Recording controlled Coulometer | 2,000 | Pub. Health Serv. & Wah Chang Corp. |
| DU Spectrophotometer | 2,000 | |
| Vapor Chromatograph Apparatus | 2,300 | |
| Conductometric Comb. apparatus | 2,000 | Leco Corp. |
| Gas Chromatographer | 2,100 | NSF |
| Sheet making equip. with auto. press | 5,250 | |
| X-Ray Unit | 2,000 | |
| Isatron Assembly | 1,547 | |
| Facsimile Recorder | 1,009 | |
| 37 inch cyclotron | 100,000 | The Res. Corp., U. of Cal., & AEC |
| Aerojet AGN Nuclear Reactor (1/4 interest) | 95,000 | (Total value), AEC |
| Jarrell-Ash 4.8 meter optical spectrometer | 14,970 | |

| | Value | Gift |
|---|---|---|
| X-Ray Unit, General Electric | $ 4,000 | |
| X-Ray Unit, General Electric | 5,000 | |
| Three radar stations (meteorology) | 15,000 | |
| Three component seismograph stat. | 6,000 | |
| Nuclear magnetic resonance apparatus | 3,500 | |
| Electron Microscope | 17,319 | |
| X-Ray Machine | 6,000 | |
| DU Spectrophotometer | 1,600 | Amer. Can. Soc. |
| B & L Grating Monochromator | 1,100 | Amer. Can. Soc. |
| Cytospectrophotometer | 3,000 | Amer. Can. Soc. |
| Cinephotomicrographic assembly | 2,500 | USPHS |
| Microscope | 4,500 | Amer. Can. Soc. & USPHS |
| Leitz Dialux Microscope | 1,500 | USPHS |
| Eight Research Microscopes | 8,000 | Amer. Can. Soc. & USPHS |
| Photomicrographic cameras | 1,500 | USPHS |
| Precision Analytical balance | 1,000 | USPHS |
| Ultracentrifuge | 4,548 | |
| Alwac III-E Computer | 60,000 | NSF, various industries |
| Analytical ultracentrifuge | 24,000 | Tektronix, Res. Corp. |
| Recording spectrophotometer | 16,000 | USPHS |
| Electrophoresis apparatus | 20,000 | USPHS |
| Refrigerated centrifuges | 19,000 | USPHS, NSF |
| Spectrophotometers | 2,800 | Various |
| Preparative ultracentrifuge | 15,000 | USPHS |
| Liquid scintillation counter | 10,000 | USPHS |
| Warburg apparatus | 4,000 | Various |
| Constant low-temperature bath | 1,000 | USPHS |
| Precision pH meter | 1,500 | USPHS |
| Analytical balances | 1,000 | Various |
| Electrophoresis column | 1,000 | USPHS |
| Ice Machine | 1,000 | |
| Dishwasher, Automatic | 3,500 | USPHS |
| Photomicrography unit | 1,600 | |
| Warburg apparatus | 1,300 | |
| Microscope-phase optics | 1,300 | |
| Autoclave | 2,500 | |
| Autoclave | 1,200 | |
| Dishwasher | 1,900 | |
| Spectrophotometer | 1,700 | |
| Controlled light & temp. unit | 2,100 | |

F. Library

At Oregon State, the library is centralized, there being no full-scale departmental libraries.

However, certain departments, including Chemistry, Botany, and Bacteriology, do have a small collection, consisting almost entirely of duplicate sets of reference volumes. These are catalogued and inventoried in the central library.

G. Records and Reports

1. The School maintains an up-to-date file on each student registered in the school. If he transfers to another school on the campus, the record goes with him. If he graduates, the record is retained here in the alumni file. Records are kept up to date by the registrar's office.

2. We maintain no alumni file other than the collection of records of graduating or resigning students.

3. No alumni directory is maintained or published by the School, although several of the departments do attempt this.

4. Each department in the School takes care of placement for its graduates. There is considerable variation in the completeness of such records.

5. The State System of Higher Education publishes annually, a list of publications of staff members of all the schools in the system. Here in the School, we maintain a cumulative card file for the publications of all staff members.

H. The Curriculum

1. The School of Science consists of the following instructional departments:
   a. GENERAL SCIENCE: Offers those courses which cut across two or more departmental fields.
   b. BACTERIOLOGY AND HYGIENE: General bacteriology and its applications in pathology, industry, sanitation, soils, foods; also virology and immunology.

c. BOTANY: General botany, taxonomy, ecology, plant physiology, plant pathology, plant anatomy, plant genetics, cytology, histology, and the applications of all these in agriculture, forestry, and industry.
d. CHEMISTRY: The four traditional fields of inorganic, organic, analytical and physical chemistry, with specializations including biochemistry, agricultural chemistry, colloids, forest products chemistry, electrochemistry, radiochemistry, etc.
e. ENTOMOLOGY: General entomology with applications to medicine, forestry, and agriculture.
f. GEOLOGY: General geology, paleontology, petrology, and stratigraphy.
g. MATHEMATICS: The usual lower-division courses including calculus, with the traditional specializations in advanced algebra, geometry, and calculus, also courses involving the computer. The work in numerical analysis is especially strong.
h. NATURAL RESOURCES: Resource analysis, planning, and administration.
i. OCEANOGRAPHY. Instruction, given chiefly at the graduate level, is closely tied in with an extensive research program.
j. PHYSICS: The classical and modern fields of plysics, including electronics and atomic physics, together with work in astronomy, meterology, and photography.
k. SCIENCE EDUCATION: A department administered jointly by the School of Science and the School of Education. There is no major curriculum, and relatively few courses. Those students looking forward to teaching in public schools get their degrees in one of the other Science departments, or in the School of Education, but they are counseled by the staff in Science Education.
l. STATISTICS: Offers both undergraduate and graduate service courses, but restricts major work to the graduate level.
m. ZOOLOGY: Includes all work in animal biology, including zoology, anatomy, physiology, parasitology, embryology, histology, genetics, and natural history.

2. The courses offered last year are checked in the attached catalog. If not offered last year, the entry shows when they were last given.

3. All 13 departments above listed offer upper-division and graduate courses.

4. Baccalaureate degrees are offered in the following fields, with the staff as indicated in each department:

a. GENERAL SCIENCE: (In this department are found most science education students, pre-medical, predental and other pre-professional students, also those who are seeking a very general curriculum without specialized scientific emphasis.)

Staff: Professors Hansen, Gilfillan, Williamson: Associate Professors Beer and Crews: Assistant Professors Fox, Stahl, and Humphrey: Instructor Craven: and five graduate assistants.

b. BACTERIOLOGY AND HYGIENCE: Two undergraduate curricula are offered: Bacteriology, and Sanitary Bacteriology. At the graduate level there are also a number of applied fields.

Staff: Professors Elliker, C. L. Anderson, Bollen, Langton, Pilcher, Gilmour: Associate Professor A. W. Anderson: Assistant Professor Parks: Instructor Sandine; also five graduate fellows and assistants.

c. BOTANY: A single undergraduate curriculum, with a considerable number of electives. Graduate majors include: cytology, ecology, morphology, mycology, plant pathology, physiology and systematic botany.

Staff: Professors Young, Dietz, Milbrath, Vaughan, Smith, Roth: Associate Professors Phinney, Belkengren, Chilcote, Jones, Jensen: Assistant Professor Cameron, Deep, Brandt, Raymer: Instructors Lund, Hill; also four graduate assistants.

d. CHEMISTRY: Three undergraduate major curricula are offered, all of which meet the standards of the American Chemical Society. These are: Chemistry, Biochemistry, and Agricultural Chemistry. At the graduate level, these three are included with a number of specialized fields and applications as indicated in the catalog.

Staff: Professors Christensen, Butts, Caldwell, Cheldelin, Decius, Gilbert, Remmert, King, Kurth, Logan, Pease, Hill, Richardson, Scott, Slabaugh, Wang, Williams, Clark: Associate Professors Freund, Hedberg, Marvell, Newburgh, Norris, Reese: Assistant Professor Parsons: Instructors Bray, Stevens, Bubl; also 41 graduate fellows and assistants.

e. ENTOMOLOGY: All fields of entomology, pure and applied, are covered by a single curriculum at each level.

Staff: Professors Ritcher, Martin: Associate Professors Crowell, Rudinsky, Terriere, Stephen: Assistant Professor Krantz: Instructors Hasbrouck, Lattin, Kraft.

f. GEOLOGY: Undergraduate and graduate majors in geology and in palenotology.
   Staff: Professors Allison, Wilkinson: Associate Professor Taubeneck: Assistant Professors Koch, Bostwick, Cummings: Instructors Cockran, Snook; also seven graduate assistants.

g. MATHEMATICS: A single undergraduate curriculum with numerous electives for specialization. Graduate specialization in most fields of mathematics, including computer mathematics.
   Staff: Professors Lonseth, Milne, Arnold, Gaskell, Goheen, Hostetter, Oberhettinger, Poole, Williams: Associate Professors Kirkham, Reifenberg, Saunders, Stone: Assistant Professors Buschman, Godard, Groemer, McLeod, Reynold, Stalley: Instructors Bakkum, Defenbach, Flood, Overholser, Reynolds, Herman, Town, Tucker, Wyse; also 24 graduate fellows and assistants.

h. NATURAL RESOURCES: A single curriculum in resource geography.
   Staff: Professors Jensen, Highsmith: Associate Professor Heintzelman: Assistant Professor Rudd: Instructor Jack; also two graduate assistants.

i. OCEANOGRAPHY: Major instruction limited to graduate level.

j. PHYSICS: A single undergraduate curriculum, with numerous electives. Graduates may major also in modern physics, electronics, meteorology, photography, theoretical physics, applied physics, nuclear physics.
   Staff: Professors Yunker, Brady, Dempster, Varner: Associate Professors Garman, Nicodemus, Vinyard, Decker, Assistant Professors Burch, Church, Forrest, Trigg: Instructors Sommerfeldt, Tynes; also 13 graduate fellows and assistants.

k. SCIENCE EDUCATION: No undergraduate curriculum. Most students get degree in General Science.

l. STATISTICS: Major instruction limited to graduate level.

m. ZOOLOGY: A single undergraduate curriculum with opportunity for some specialization. Graduate majors in Anatomy, Embryology, Physiology, Invertebrate Zoology, Parasitology, Cellular Biology, Genetics, Natural History, Ecology.
   Staff: Professors Dornfeld, Krueger, Anderson, Pratt,

Allman, Gordon, Hilleman: Associate Professors Storm, Pritchard: Assistant Professors Mohler, Hisaw, Owczarzak; also 14 graduate fellows and assistants.

n. MEDICAL TECHNOLOGY: A curriculum in which students follow three years of prescribed work here, followed by one academic year at the Medical School. The degree of Bachelor of Science with a major in Medical Technology, is conferred by Oregon State College.

o. NURSING: A curriculum in which students follow two years (or five terms) of prescribed work here, followed by three years at the Medical School. The degree of Bachelor of Science, with a major in Nursing, is conferred by Oregon State College.

5. The number of students majoring in academic fields of science, in the fall term of 1959-60 were:

| | Undergraduate | Graduate | |
|---|---|---|---|
| *GENERAL SCIENCE | 228 | 65 | |
| BACTERIOLOGY | 22 | 18 | |
| BOTANY | 7 | 39 | |
| CHEMISTRY | 128 | 107 | |
| ENTOMOLOGY | 8 | 21 | |
| GEOLOGY | 76 | 11 | |
| MATHEMATICS | 102 | 41 | |
| NATURAL RESOURCES | 28 | 12 | |
| OCEANOGRAPHY | -- | 1 | |
| PHYSICS | 127 | 34 | |
| SCIENCE EDUCATION | 60 | -- | |
| STATISTICS | -- | 1 | |
| ZOOLOGY | 20 | 27 | |
| Premedical | 61 | -- | |
| Pre-Veter. Medical | 18 | -- | |
| Predental | 52 | -- | |
| Medical Technology | 38 | -- | |
| TOTALS..... | 975 | 377 | |
| GRAND TOTAL... | | | 1,352 |

* Graduate students in Science Education are included in the number indicated in General Science above.

6. Each curriculum requires 192 term credits for completion. Of this number, each curriculum requires: 9 of English Composition, 9 of social science, 9 of literature, 6 of physical education. Six credits of military science are required of all men unless excused. There is a minimum of 36 hours in the major subject, of which 24 must be upper division. The total 192 credits must contain at least 45 at the upper division level. Departmental requirements are as follows for undergraduates:

| | Total Major | Up. Div. Major | Support. Science | Elect-ives |
|---|---|---|---|---|
| Gen. Science | 51 | (24) | -- | 75 |
| Bacteriology | 39 | (33) | 56 | 46 |
| Botany | 36 | (27) | 39 | 42 |
| Chemistry | 68 | (36) | 45 | 16 |
| Entomology | 37 | (27) | 53 | 51 |
| Geology | 54 | (42) | 48 | 30 |
| Mathematics | 51 | (27) | 18 | 72 |
| Natur. Resources | 47 | (38) | 18 | 43 |
| Oceanography | -- | -- | -- | -- |
| Physics | 60 | (48) | 54 | 27 |
| Statistics | -- | -- | -- | -- |
| Zoology | 47 | (41) | 33 | 49 |

7. Courses are added to the curriculum or discontinued by agreement between the department chairman and the dean.

8. The number of required courses is handled the same way, so long as the total remains within limits set by the curriculum council of the college.

9. The curriculum committee within each department, also the all-college Curriculum Council, exercises constant surveillance over all curricula.

10. A one-day meeting of the entire science staff at the beginning of each year, is devoted to the curriculum, to school objectives, etc. These topics are again brought up at the monthly meetings during the year, hence they are always before us.

11. There has been little student initiative toward modifying curricula, however we have consulted students on this subject, and have received some suggestions which have been adopted.

12. Preprofessional curricula are modified in accordance with suggestions coming from schools of medicine, dentistry, optometry, law, etc. Other suggestions may come from professional accredital organizations, as the American Chemical Society.

## I. The Instructional Staff

1. Personnel. Members of the faculty are listed below by departments. All are on full time with the College, hence an F. T. E. less than 1.00 reflects service in another department or school on the campus.

| | Rank | FTE | Months |
|---|---|---|---|
| **GENERAL SCIENCE** | | | |
| Gilfillan, F. A. | Dean (Prof) | 1.00 | 12 |

B. S. Oregon State: Ph. D Yale. No further formal graduate work. Field--organic chemistry. Experience--42 yrs. with 36 at OSC. Scholarly and professional organizations: AAAS: Amer. Chem. Soc.: History of Science Society: Sigma Xi: Phi Kappa Phi, etc. Only publications during past five years have been popular or non-scientific ones.

| | | | |
|---|---|---|---|
| Hansen, H. P. | Prof. (Chr.) | 0.25 | 12 |

Ph. B., Ph. M. Wisconsin: Ph. D. Washington. No further formal graduate work. Field--Palynology: Experience--30 yrs. with 21 at OSC. Scholarly and Professional organizations AAAS: Ecological Society of America, Oregon Acad. of Sci: N. W. Scientific Assn: Sigma Xi: Phi Kappa Phi: Phi Sigma. Publications during past five years--1.

| | | | |
|---|---|---|---|
| Williamson, S. E. | Prof. | .20 | 10 |

B. A. Nebraska Wesleyan: M. A. Columbia: Ed. D. Oregon. No further formal graduate work. Field--Science Education. Experience--29 yrs with 14 at OSC. Scholarly and professional organizations: Phi Delta Kappa: Kappa Delta Pi: Phi Kappa Phi: Nat'l Assn for Res. in Sci. Teaching: Nat'l Sci. Teachers Assn. Publications during past five years--2.

| | Rank | FTE | Months |
|---|---|---|---|
| Beer, F.M. | Assoc. Prof. | 1.00 | 10 |

B.S. Oregon: M.S. Washington. 36 term hours beyond M.S. degree. Field--Zoology. Experience--31 yrs. with 12 at OSC. Scholarly and professional organizations: AAAS: AAUP: Pac. Coast Ent. Soc.: Ore. Acad. Sci.: Ore. Ent. Soc. Publications during past five years--1.

| | | | |
|---|---|---|---|
| Crews, G.T. | Assoc. Prof. | 1.00 | 10 |

B.S. Washington: Cert. in Aerology, U.S. Naval Acad. Post Grad. Sch.: M.S., Ed.D Oregon State. No further formal graduate work. Field--Meteorology. Experience--24 yrs. with 12 at OSC. Scholarly and professional organizations: Phi Delta Kappa. Publications during past five years--None.

| | | | |
|---|---|---|---|
| Stahl, W.R. | Asst. Prof. | .25 | 12 |

B.S. MIT: M.D. Harvard. One year. special radiobiology. Field--Radiobiology. Experience-4 yrs. with first this year at OSC. Scholarly and professional organizations: AAAS: Sigma Xi: Radiation Res. Soc. Publications during past five years--3.

| | | | |
|---|---|---|---|
| Fox, F.W. | Asst. Prof. | .30 | 10 |

B.S.Ed Miami (Ohio): M.A. Ohio State: Ph.D. Ohio State. No further formal graduate work. Field--Science Ed. Experience--13 yrs. with 3 at OSC. Scholarly and professional organizations: Phi Delta Kappa: Ore. Acad. Sci.: AAUP: Nat'l Sci. Teachers Assn.: Cent. Assn. Sci. & Math. Teachers: Ore. Sci. Teach. Assn.: Ore. Math. Teach. Assn. Publications during past five years--None.

| | | | |
|---|---|---|---|
| Humphre., D.G. | Asst. Prof. | 1.00 | 10 |

B.S. Iowa: M.S. Washington: Ph.D Oregon State. No further formal graduate work. Field--Zoology. Experience--10 yrs. with 4 at OSC. Scholarly and professional organizations: AAAS: AIBS: Sigma Xi: Phi Sigma: W. Soc. Nat.: Ore. Acad. Sci.: Ore. Herp. Soc.: Ore. Marine Biol. Assn.: AAUP: Phi Kappa Phi. Publications during past five years--4.

| | Rank | FTE | Months |
|---|---|---|---|
| Craven, G.F. | Instr. | .50 | 10 |

B.S. Ed. Kansas State Teachers: M.S. Oregon State. One year of work beyond highest degree. Field--Gen. Science. Experience--4 yrs. with 1 at OSC. Scholarly and professional organizations: Nat'l Sci. Teach. Assn. Publications during past five years--1.

BACTERIOLOGY

Elliker, P. R. — Prof. (Chr.) .69 12

B.S., M.S., Ph.D. Wisconsin. No further formal graduate work. Field--Bacteriology. Experience--22 yrs. with 12 at OSC. Scholarly and professional organizations: Sigma Xi: Phi Sigma: Alpha Zeta: AAUP: OSEA: Soc. Amer. Bact.: Amer. Dairy Sci. Assn.: Inst. Food Techn.: Internat'l Assn. Milk & Food Sanit.: Acad. of Microbiology. Publications during past five years--24.

Anderson, C.L. — Prof. .20 10

B.S., M.S., Dr. P.H. Michigan. One year beyond highest degree. Field--Physiology. Experience--28 yrs. with 11 at OSC. Scholarly and professional organizations: AAAS (F): Amer. Genetics Assn.: Amer. Pub. Health Assn. (F): Sigma Xi: Phi Kappa Phi: Soc. for Res. in Child Develop. (F). Publications during past five years--7.

Bollen, W.B. — Prof. .33 12

B.S. Iowa State: M.S. Oregon State: Ph.D. Iowa State. No further formal graduate work. Field--Bacteriology. Experience--34 yrs. with 30 at OSC. Scholarly and professional organizations: Gamma Sigma Delta: Sigma Xi: Phi Lambda Upsilon: Amer. Chem. Soc.: Soc. Amer. Bact.: Soil Sci. Soc. Amer.: Sewage & Indust. Wastes Assn. Publications during past five years--21.

Gilmour, C.M. — Prof. .82 12

B.S.A., M.S.A. British Columbia: Ph.D. Wisconsin. No further formal graduate work. Field--Microbiology. Experience--10 yrs. with 8 at OSC. Scholarly and professional organizations: Sigma Xi: Phi Sigma: Assn. Amer. Bact. Publications during past 5 yrs--14.

| | Rank | FTE | Months |
|---|---|---|---|
| Langton, C. V. | Prof. | .06 | 12 |

B.S., M.S. Dr. P.H. Michigan: D.Ed. Oregon. No further formal graduate work. Field--Public Health. Experience--40 yrs. with 31 at OSC. Scholarly and professional organizations: Amn. Pub. Health Assn.: Amn. Assn. Health, P.E. & Rec.: Amn. School Health Assn.: Amn. Col. of Sports, Medicine: Col. P.E. Assn.: Amn. Acad. of P.E. Publications during past five years--2.

| | | | |
|---|---|---|---|
| Pilcher, K.S. | Prof. | 1.00 | 10 |

B.S., Ph.D. Washington. No further formal graduate work. Field--Animal Virology. Experience--20 yrs. with 8 at OSC. Scholarly and professional organizations: Soc. of Amer. Bact.: AAAS: N. Y. Acad. Sci.: Sigma Xi. Publications during past five years--5.

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|---|---|---|---|
| Anderson, A.W. | Assoc. Prof. | .78 | 12 |

B.S. North Dakota State: M.S. Wisconsin: Ph.D. Oregon State. No further formal graduate work. Field--Bacteriology. Experience--10 yrs. with 7 at OSC. Scholarly and professional organizations: Soc. of Amer. Bact.: Soc. of Food Techn.: Sigma Xi: Alpha Zeta. Publications during past five years--20.

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|---|---|---|---|
| Parks, L.W. | Asst. Prof. | .16 | 12 |

B.S. Illinois: M.A. Indiana: Ph.D. Washington. Two years of work beyond highest degree. Field--Microbiology. Experience--3 1/2 yrs. with 1 1/2 at OSC. Scholarly and professional organizations: Soc. of Sigma Xi: Phi Sigma Soc.: AAAS: Soc. for Gen. Microbiology: Soc. of Amer. Bact.: Amer. Chem. Soc. Publications during past five years--13.

BOTANY

| | | | |
|---|---|---|---|
| Young, Roy A. | Prof. (Chr.) | .50 | 12 |

B.S. New Mexico A. & M.: M.S., Ph.D. Iowa State. No further formal graduate

| | Rank | FTE | Months |
|---|---|---|---|
| Young, cont. | work. Field--Plant Pathology. Experience--14 yrs. with 11 at OSC. Scholarly and professional organizations: AAAS: AIBS: Amer. Phytopath. Soc.: Sigma Xi: Ore. Acad. Sci.: Phi Kappa Phi: Phi Sigma. Publications during past five years years--16. | | |
| Dietz, S.M. | Prof. | .39 | 6 |
| | B.S., M.S., Ph.D. Iowa State. One year of work beyond highest degree. Field--Botany. Experience--42 yrs. with 12 1/2 at OSC. Scholarly and Professional organizations: Iowa Acad. Sci.: Ore. Acad. Sci.: AAAS: Amer. For. Assn.: Phi Kappa Phi: Sigma Xi: Botanical Soc.: Amer. Phytopath. Soc.: Gamma Sigma Alpha. Publications during past five years--1. | | |
| Milbrath, J.A. | Prof. | .15 | 12 |
| | B.S. Washington State: Ph.D. Oregon State. No further formal graduate work. Field--Plant Pathology. Experience--26 yrs. at OSC. Scholarly and Professional organizations: AIBS: Amer. Phytopath. Soc.: Pac. Div. Amer. Phytopath. Soc. Publications during past five years--15. | | |
| Roth, L.F. | Prof. | .45 | 12 |
| | B.A. Miami. Ph.D. Wisconsin. One year of work past Ph.D. degree. Field--Forest pathology. Experience--19 yrs. with 19 at OSC. Scholarly and Professional organizations: Sigma Xi, Phi Sigma: Mycological Soc. Amer.: Amer. Phytopath. Soc.: Soc. Amer. Foresters. Publications during past five years--10. | | |
| Smith, F.H. | Prof. | 1.00 | 10 |
| | B.S. Arkansas: M.S. Washington State: Ph.D. Wisconsin. Three and one-half years of work beyond highest degree. Field--Plant Anatomy. Experience--27yrs. with 23 at OSC. Scholarly and Professional organizations: Sigma Xi: Phi Kappa Phi: Phi Sigma: Bot. Soc. Amer.: AAAS. Publications during past five years--6. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Vaughan, E.K. | Prof. | .16 | 12 |

B.S. New Mexico State: M.S. Oregon State: Ph.D. Minnesota. No further formal graduate work. Field--Plant Pathology. Experience--27 yrs. with 12 yrs. at OSC. Scholarly and professional organizations: AAAS: Amer. Phytopath Soc.: Amer. Soc. Plant Phys.: Bot. Soc. Amer.: Nederlandsche Plantenziektenkundije Vereiniging: Nat'l Geographic Soc.: Sigma Xi: Gamma Sigma Delta: Phi Sigma: AAUP. Publications during past five years 19.

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|---|---|---|---|
| Belkengren, R.O. | Assoc. Prof. | .82 | 12 |

B.S. Minnesota: Ph.D. Minnesota. No further formal graduate work. Field--Plant Physiology. Experience--18 yrs. with 10 at OSC. Scholarly and professional organizations: Sigma Xi, Amer. Soc. Plant Phys.: Bot. Soc. Gamma Sigma Delta: Phi Lambda Upsilon: Gamma Alpha: Phi Tau Sigma. Publications during past five years--1.

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|---|---|---|---|
| Chilcote, W.W. | Assoc. Prof. | .75 | 12 |

B.S. Iowa State: Ph.D. Iowa State. No further formal graduate work. Field--Plant Physiology. Experience--13 yrs. with 9 at OSC. Scholarly and professional organizations: Ecological Soc.: Soc. Amer. Foresters: Sigma Xi: Phi Kappa Phi. Publications during past five years--1.

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|---|---|---|---|
| Jensen, H.J. | Assoc. Prof. | .24 | 12 |

B.S., Ph.D. California at Berkeley. No further formal graduate work. Field--Nematology. Experience--9 yrs with 9 at OSC. Scholarly and Professional organizations: Sigma Xi: Gamma Alpha: Amer. Phytopath Soc.: Helminth Soc. Wash. Publications during past five years--20.

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|---|---|---|---|
| Jones, L.E. | Assoc. Prof. | .75 | 12 |

A.B. Chico State: Ph.D. Oregon State. Ten months of work beyond highest degree. Field--Plant Morph. Experience--12 yrs. with 9 at OSC. Scholarly and professional

| | Rank | FTE | Salary | Months |
|---|---|---|---|---|
| Jones, cont. | organizations: Sigma Xi: Phi Kappa Phi: Phi Sigma: Amer. Phytopath. Soc.: Bot. Soc. Amer.: Ore. Acad. Sci. Publications during past five years--7. | | | |
| Phinney, H.K. | Assoc. Prof. | .75 | | 12 |
| | B.A. Cincinnati: M.A. Albion (Mich): Ph.D. Northwestern. No further formal graduate work. Field--Phycology. Experience--14 yrs. with 12 at OSC. Scholarly and professional organizations: AAAS: Bot. Soc. Amer. Torrey Bot. Club: Sigma Xi: Phy. Soc. Amer.: N.Y. Acad.: Amer. Micro. Soc. Publications during past five years--2. | | | |
| Brandt, W.H. | Asst. Prof. | .75 | | 12 |
| | B.A. Montanta State: M.S., Ph.D. Ohio State. No further formal graduate work. Field--Plant Physiology. Experience--7 yrs. with 3 at OSC. Scholarly and professional organizations: Bot. Soc. Amer.: Mycol. Soc. Amer.: Sigma Xi: Phi Sigma: Kappa Tau: Phi Epsilon Phi. No publications during past 5 yrs. | | | |
| Cameron, H.R. | Asst. Prof. | .25 | | 12 |
| | B.S. California (Davis): Ph.D Wisconsin. No further formal graduate work. Field--Plant Pathology. Experience--5 yrs. with 5 at OSC. Scholarly and professional organizations: AIBS: Phytopath: Sigma Xi: Phi Sigma: Gamma Alpha. Publications during past five years--10. | | | |
| Deep, I.W. | Asst. Prof. | .75 | | 12 |
| | B.A. Miami (Ohio): M.S. Tennessee: Ph.D Oregon State. No further formal graduate work. Field--Plant Pathology. Experience--6 yrs. with 6 at OSC. Scholarly and professional organizations: Amer. Phytopath. Soc.: Sigma Xi: Phi Kappa Phi. Publications during past five years--2. | | | |
| Raymer, W.B. | Asst. Prof. | .10 | | 12 |
| | B.S. British Columbia. Ph.D. Oregon State. 3 1/2 years of work beyond highest degree. Field--Plant Virology. Experience--3 1/2 yrs. with 3 1/2 at OSC. Scholarly and professional organizations: Amer. Phyto. Soc.: Sigma Xi: Publications during past 5 yrs.--3. | | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Dennis, L.R. | Instr. | .49 | 12 |
| | B.A. Willamette: M.A. Oregon State. One year of work beyond highest degree. Field--Systematic Botany. Experience--2 1/2 yrs. as a student. Scholarly and professional organizations: Phi Sigma, Sigma Xi, Oregon Acad. Sci. No publications during past five years. | | |
| Lund, W.T. | Sr. Instr. | 1.00 | 12 |
| | B.S., M.S. Oregon State. No further formal graduate work. Field--Plant Pathology. Experience--22 yrs. with 22 at OSC. Scholarly and professional organizations: Phi Sigma. No publications during past five years. | | |
| Peek, C.A. | Instr. | 1.00 | 10 |
| | B.S. Wyoming: M.S. Wyoming. Four and one-fourth years of work beyond highest degree. Field--Mycology. Experience--2 1/4 yrs. with 1 1/4 at OSC. Scholarly and professional organizations: Alpha Zeta: Chi Gamma Iota: Sigma Xi: Phi Sigma: AIBS: Amer. Soc. Limnol. & Oceanography. Publications during past five years--2. | | |
| CHEMISTRY | | | |
| Christensen, B.E. | Prof. | 1.00 | 12 |
| | B.S. Washington State: Ph.D. Washington. No further formal graduate work. Field--Organic Chemistry. Experience--32 yrs. with 27 at OSC. Scholarly and professional organizations: Sigma Xi: Phi Lambda Upsilon: Phi Kappa Phi: Amer. Chem. Soc. Publications during past five years--23. | | |
| Butts, J.S. | Prof. | .50 | 12 |
| | B.S. Florida: M.S. Fordham: Ph.D. USC. Post Doctrate work for seven months in Germany. Field--Biochemistry. Experience--30 yrs. with 20 at OSC. Professional and Scholarly organizations: Sigma Xi, Phi Kappa Phi: Amer. Soc. Biol. Chem.: Amer. Inst. Nutr: Soc. Exper. Biol. and Mel.: Nutr. Soc.: Biochem Soc.: Amer. Chem. Soc.: AAAS: Publications during past five years--15. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Caldwell, W.E. | Prof. | 1.00 | 10 |

Met. E. Montana School of Mines: M.S. Ph.D. Wisconsin. Four years of work beyond highest degree. Field--Inorganic Chemistry. Experience--34 yrs. with 29 At OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Sigma Xi: Amer. Inst. Mining & Met. Eng.: Phi Kappa Phi: Phi Lambda Upsilon: Alpha Chi Sigma. Publications during past five years--4.

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| Cheldelin, V.H. | Prof. | .50 | 10 |

B.A. Reed: M.S. Oregon State: Ph.D. Texas. Four years of work beyond highest degree. Field--Bio-organic Chemistry. Experience--18 yrs. with 17 at OSC. Scholarly and Professional organizations: Sigma Xi: Amer. Chem. Soc.: Amer. Soc. Biol. Chemists: Amer. Inst. Nutrition: Biochem. Soc.: Soc. Exptl. Biol. Med.: Soc. Amer. Bact.: Ore. Acad. Sci.: Phi Kappa Phi: Phi Lambda Upsilon. Publications during past five years--75.

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|---|---|---|---|
| Clark, James | Prof. | .85 | 10 |

B.S. U. of London: Ph.D. Lawrence (Wisconsin). One year of work beyond highest degree. Field--Pulp and Paper Science. Experience--38 yrs. with 1/4 at OSC. Scholarly and Professional organizations: Prof. Engineer: Wash. Tech. Ass. Pulp & Paper Ind.: Tech. Sect. Canadian Pulp & Paper Assn: Tech. Sect. Paper Makers Assn.: GB&I: Tech. Sect. Australia Pulp & Paper Assn. Publications during past five years--7.

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|---|---|---|---|
| Decius, J.C. | Prof. | 1.00 | 10 |

A.B. Stanford: M.A., Ph.D. Harvard. No further formal graduate work. Field--Chemical Physics. Experience--14 yrs. with 10 at OSC. Scholarly and professional organizations: Phi Beta Kappa, Sigma Xi, Amer. Phy. Soc.: Amer. Chem. Soc. Publications during past five years--6 articles and 1 book.

| | Rank | FTE | | Months |
|---|---|---|---|---|
| Gilbert, E.C. | Prof. | 1.00 | | 10 |

B.S., M.S. Hiram: Ph.D. Chicago. One year of work beyond highest degree. Field--Chemistry. Experience--43 yrs. with 42 at OSC. Scholarly and professional organizations: AAAS: Amer. Chem. Soc.: Sigma Xi: Phi Lambda Upsilon: Phi Kappa Phi: N.Y. Acad. Sci.: Faraday Soc. of London: Electrochemical Soc. Publications during past five years--2.

| | | | | |
|---|---|---|---|---|
| Hill, Robert | Prof. | 1.00 | | 3 |

Visiting professor who hasn't arrived yet.
Sc.D.(1944)Cambridge University, England.
36 years teaching and professional experience

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|---|---|---|---|---|
| King, Tsoo E. | Prof. | .40 | 9,700 | 10 |

B.S. National Central (China): M.S., Ph.D. Oregon State. Two and one-half years of work beyond highest degree. Field--Biological Oxidation. Experience--16 yrs. with 8 at OSC. Scholarly and Professional Organizations: Amer. Soc. Biol. Chem.: Amer. Chem. Soc.: Soc. Amer. Bact.: Biochem. Soc.: Faraday Soc.: Chem. Soc.: Sigma Xi: Phi Lambda Upsilon: Phi Kappa Phi: Phi Sigma: AAAS. Publications during past five years--40.

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|---|---|---|---|---|
| Kurth, E.F. | Prof. | .50 | | 10 |

B.S., M.S., Ph.D. Wisconsin. No further formal graduate work. Field--Chemistry. Experience--32 yrs. with 15 at OSC. Scholarly and professional organizations: Sigma Xi: Amer. Chem. Soc.: Tappi, AUP. Publications during the past five years--14.

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|---|---|---|---|---|
| Logan, A.V. | Prof. | 1.00 | | 10 |

A.B. Willamette: M.S., Ph.D. MIT. No further formal graduate work. Field--Organic Chemistry. Experience--35 yrs. with 13 at OSC. Scholarly and professional organizations: ACS: Sigma XI: Alpha Chi Sigma: Phi Lambda Upsilon: AAUP. Publications during past five years--6.

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|---|---|---|---|---|
| Pease, C.S. | Prof. | 1.00 | | 10 |

B.S. Denison (Ohio): Ph.D. Ohio State.

| | Rank | FTE | Months |
|---|---|---|---|
| Pease, cont. | Six months of work beyond highest degree. Field--Organic Chemistry. Experience--40 yrs. with 34 at OSC. Scholarly and Professional Organizations: Phi Lambda Upsilon: Sigma Xi: Amer. Chem. Soc.: Ore. Acad. Sci. Publications during past five years--None. | | |
| Remmert, L.F. | Prof. | .14 | 12 |
| | B.S. Iowa State: M.S. Oregon State: Ph.D. Wisconsin. Fourteen months of post doctoral work. Field--Biochemistry. Experience--11 yrs. with 11 at OSC. Scholarly and professional organizations: Phi Kappa Phi, Phi Lambda Upsilon: Sigma Xi: Amer. Soc. Biological Chemists: Amer. Chem. Soc.: AAAS: Biochem. Soc.: Amer. Soc. Plant Physiol.: Scandinavian Soc. Plant Physiol: AAUP. Publications during past five years--10. | | |
| Richardson, G.A. | Prof. | .10 | 12 |
| | B.S. Toronto: M.S., Ph.D. Minnesota. No further formal graduate work. Field--Agr. Biochem. Experience--33 yrs. with 12 at OSC. Scholarly and Professional Organizations: AAAS: ACS: Amer. Dairy Sci. Assn.: Inst. Food Techn.: Ore. Acad. Sci.: Sigma Xi: Phi Lambda Upsilon: Alpha Zeta: Gamma Alpha: Phi Tau Sigma. Publications during past five years--9. | | |
| Scott, A.B. | Prof. | 1.00 | 10 |
| | B.S. Oregon State: Ph.D. Washington. No further formal graduate work. Field--Physical Chemistry. Experience--14 yrs. with 14 at OSC. Scholarly and Professional Organizations: Amer. Chem. Soc.: Amer. Phy. Soc.: Sigma Xi: Acad. of Sci., Ore.: Phi Kappa Phi. Publications during past five years--11. | | |
| Slabaugh, W.H. | Prof. | 1.00 | 10 |
| | B.A. North Central College (Illinois): M.S. North Dakota State College: Ph.D. Washington State. No further formal graduate | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Slabaugh, cont. | work. Field--Surface Chemistry & Colloids. Experience--21 yrs. with 6 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Sigma Xi: Phi Lambda Upsilon: Phi Kappa Phi: Ore. Acad. Sci.: Amer. Assn. Univ. Professors. Publications during past five years--16. | | |
| Wang, C.H. | Prof. | .50 | 10 |
| | B.S. Shantung (China): M.S. Oregon State: Ph.D. Oregon State. No further formal graduate work. Field--Organic Chemistry. Experience--14 yrs. with 9 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Amer. Soc. Plant Physiol.: Soc. of Amer. Bact.: Amer. Soc. Biol. Chemists: AAAS: AAUP: Sigma Xi: Phi Lambda Upsilon: Phi Kappa Phi. Publications during past five years--28. | | |
| Williams, M.B. | Prof. | 1.00 | 10 |
| | B.S., M.S. Utah: Ph.D. Cornell. No further formal graduate work. Field--Physical Chemistry. Experience--18 yrs. with 18 at OSC. Scholarly and professional organizations: Sigma Xi: Amer. Chem. Soc.: Alpha Chi Sigma: Phi Delta Kappa: Ore. Acad. Sci.: Century Club: Phi Lambda Upsilon. Publications during past five years--6. | | |
| Freund, Harry | Assoc. Prof. | 1.00 | 10 |
| | B.S. College of City of New York: M.S., Ph.D. Michigan. No further formal graduate work. Field--Analytical Chemistry. Experience--14 yrs. with 12 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Phi Lambda Upsilon: Sigma Xi. Publications during the past five years--8. | | |
| Hedberg, K.W. | Assoc. Prof. | 1.00 | 10 |
| | B.S. Oregon State: Ph.D. Calif. Inst. of Technology. No further formal graduate work. Field--Chemistry. Experience--16 yrs. with 4 at OSC. Scholarly and professional organizations: | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Hedberg, K.W. (Con'd) | Amer. Chem. Soc.: Sigma Xi: Phi Kappa Phi: Amer. Crystallographic Assn.: Amer. Phys. Soc. Publications during past five years--8. | | |
| Marvell, E.N. | Assoc. Prof. | 1.00 | 10 |
| | B.S. Brown: Ph.D. Illinois. One year of Post Doctorate work. Field--Organic Chemistry. Experience--12 yrs. with 12 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: British Chem. Soc.: Sigma Xi: Phi Lambda Upsilon: AAUP. Publications during past five years--10. | | |
| Newburgh, R.W. | Assoc. Prof. | .14 | 12 |
| | B.S. Iowa: M.S., Ph.D. Wisconsin. No further formal graduate work. Field--Biochemistry. Experience--6 yrs. with 6 at OSC. Scholarly and professional organizations: Phi Lambda Upsilon, Sigma Xi, Amer. Chem. Soc.: Amer. Soc. Biol. Chem. Publications during past five years--20. | | |
| Norris, T.H. | Assoc. Prof. | 1.00 | 10 |
| | A.B. Princeton: Ph.D. California(Berkeley). No further formal graduate work. Field--Chemistry. Experience--17 yrs. beyond Ph.D. with 12 at OSC. Scholarly and professional organizations: Phi Beta Kappa, Sigma Xi: Amer. Chem. Soc.: Amer. Assn. Advancement of Sci. Publications during past five years--7. | | |
| Reese, H.D. | Assoc. Prof. | 1.00 | 10 |
| | B.A. Brigham Young: Ph.D. Iowa State No further formal graduate work. Field--Bio-organic Chem. Experience--23 years with 12 at OSC. Scholarly and professional organizations: Alpha Chi Sigma: Sigma Xi: Amer. Chem. Soc.: Blue Key: Phi Lambda Upsilon: Nat'l Acad. Sci.: OSEA: Phi Beta Kappa: Phi Kappa Phi. Publications during past five years--4. | | |
| Parsons, T.D. | Asst. Prof. | 1.00 | 10 |
| | B.S. Washington. Ph.D. Washington. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Parsons, cont. | No further formal graduate work. Field--Inorganic Chemistry. Experience--6 yrs. with 4 1/4 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Phi Lambda Upsilon: Sigma Xi: Phi Beta Kappa. Publications during past five years--3. | | |
| Bray, E.J. | Instr. | .60 | 10 |
| | $BS_c$ Alberta (Edmonton). No further graduate work. Field--Chemistry. Experience--4 1/2 yrs. with 3 1/3 at OSC. Scholarly and professional organizations: Chem. Inst. of Can. | | |
| Humphreys, L.L. | Instr. | .50 | 10 |
| | B.A. Linfield. One and one-third years of graduate work beyond highest degree. Field--Physical Chemistry. Experience--2 1/3 yrs. with 1 1/3 at OSC. | | |
| Stevens, Dorothy | Instr. | 1.00 | 10 |
| | B.S. Portland: M.S. Oregon State. No further formal graduate work. Field--Microscopy. Experience--4 yrs. with 3 1/3 at OSC. Scholarly and professional organizations: Amer. Chem. Soc.: Sigma Xi: Iota Sigma Pi. Publications during past five years--1. | | |
| ENTOMOLOGY | | | |
| Ritcher, P.O. | Prof., Chairman | .50 | 12 |
| | A.B., A.M. Illinois: Ph.D. Wisconsin. No further formal graduate work. Field--Entomology. Experience--27 yrs. with 7 at OSC. Scholarly and professional organizations: Phi Beta Kappa: Phi Eta Sigma: Sigma Xi: AAAS: Entomological Soc. of Amer.: Indian Entomological Soc.: Entomological Soc. of Washington: Phi Sigma. Publications during past five years--7. | | |
| Martin, C.H. | Prof. | 1.00 | 10 |
| | A.B., A.M. Kansas: Ph.D. Cornell. No further formal graduate work. Field--Entomological Ecology. Experience--30 yrs. with 14 at OSC. Scholarly and professional organizations: Sigma Xi: Phi Sigma: | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Martin, cont. | Entomological Soc. Amer.: Soc. Systematic Zoology: Ecological Soc. Amer.: Kansas Entomological Soc.: Pac. Coast Entomological Soc.: AAAS. Publications during past five years--8. | | |
| Crowell, H.H. | Assoc. Prof. | .08 | 12 |
| | B.S., M.S. Oregon State: Ph.D. Ohio State. No further formal graduate work. Field--Entomology. Experience--19 yrs. with 13 at OSC. Scholarly and professional organizations: Phi Kappa Phi: Phi Sigma: Sigma Xi: AAUP: AAAS: Entomological Soc. Amer.: The Audubon Society. Publications during past five years--10. | | |
| Rudinsky, J.A. | Assoc. Prof. | .50 | 12 |
| | Diplom Engineer in Forestry, Slovak (Bratislava): Absolutorium in Economics, Gottingen: Ph.D. Ohio State. One and one-half years of work beyond highest degree. Field--Forestry. Experience--12 yrs. with 5 at OSC. Scholarly and professional organizations: Soc. Amer. Forestors: Sigma Xi: Entomological Soc. Amer.: Ent. Soc. of Canada. Publications during past five years--10. | | |
| Stephen, W.P. | Assoc. Prof. | .08 | 12 |
| | B.S.A. Manitoba: Ph.D. Kansas. No further formal graduate work. Field--Speciation & systematic Entomology. Experience--11 yrs. with 7 at OSC. Scholarly and professional organizations: Ent. Soc. Amer.: Soc. System. Zool.: Soc. Study of Evolution: AAUP: Sigma Xi: Phi Sigma: Inter. Union for Study Social Insects. Publications during past five years--19. | | |
| Terriere, L.C. | Assoc. Prof. | .08 | 12 |
| | B.S. Idaho: Ph.D. Oregon State. No further formal graduate work. Field--Biochemistry. Experience--9 yrs. with 9 at OSC. Scholarly and Professional organizations: Phi Eta Sigma: Alpha Zeta: | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Terriere, cont. | Phi Kappa Phi: Phi Lambda Upsilon: Sigma Xi: Amer. Chem. Soc.: Ent. Soc. Amer. Publications during past five years--9 | | |
| Krantz, G.W. | Asst. Prof. | .08 | 12 |
| | B.S. Pittsburgh: Ph.D. Cornell. No further formal graduate work. Field--Entomology. Experience--4 1/2 yrs. with 4 1/2 at OSC. Scholarly and professional organizations: Ent. Soc. Amer.: Soc. Systematic Zoology: Sigma Xi. Publications during past five years--11. | | |
| Hasbrouck, F.F. | Instr. | .10 | 12 |
| | A.B., Ph.D. Illinois. No further formal graduate work. Field--Systematic Entomology Experience--10 yrs. with 6 at OSC. Scholarly and professional organizations: Ent. Soc. Amer.: Ore. Ent. Soc.: Phi Beta Kappa: Sigma Xi: Phi Sigma. No publications during the past five years. | | |
| GEOLOGY | | | |
| Allison, I.S. | Prof., Chairman | 1.00 | 10 |
| | A.B. Hanover: Ph.D. Minnesota. No further formal graduate work. Field--Geomorphology & Petrology. Experience--39 yrs. with 31 at OSC. Scholarly and professional organizations: Fellow, Geol. Soc. Amer.: Fellow, AAAS: AIME: Sigma Xi: Delta Epsilon: Phi Kappa Phi: Sigma Gamma Epsilon: AAUP: Ore. Acad. Sci.: Publications during past five years--3. | | |
| Wilkinson, W.D. | Prof. | 1.00 | 12 |
| | B.A. Oregon: Ph.D. Oregon. No further formal graduate work. Field--Petrography. Experience--30 yrs. with 27 at OSC. Scholarly and professional organizations: Sigma Xi: GSA: AAAS: Phi Kappa Phi. Publications during past five years--1. | | |
| Bostwick, D.A. | Asst. Prof. | 1.00 | 10 |
| | A.B. Montana State: M.A. Wisconsin: Ph.D. Wisconsin. No further formal graduate work. Field--Micropaleontology. Experience--6 yrs. with 6 at OSC. Scholarly and professional organizations: Sigma Xi. Publications during past five years--1. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Cummings, J.C. | Asst. Prof. | 1.00 | 10 |

B.S., M.S., Ph.D. Stanford. No further formal graduate work. Field--Geology, Stratig. Experience--6 yrs. with 2 at OSC. Scholarly and professional organizations: Geol. Soc. Amer. Amer. Assn. Petroleum Geologists, Soc. Econ. Paleontologists & Mineralogists, Sigma Xi: Amer. Assn. Univ. Professors: N.W. Scientific Assn. Publications during past five years--1.

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|---|---|---|---|
| Koch, G.S. | Asst. Prof. | 1.00 | 10 |

S.B. Harvard: M.A. John Hopkins: Ph.D. Harvard. No further formal graduate work. Field--Economic geology. Experience--11 yrs. with 4 at OSC. Scholarly and professional organizations: Geol. Soc. Amer.: Amer. Inst. Mining Eng: Sigma Xi: Ore. Acad. Sci. Publications during past five years--5.

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|---|---|---|---|
| Cochran, D.O. | Instr. | 1.00 | 10 |

B.S. Kansas State. Three years of work beyond highest degree. Field--Geology. Experience--5 yrs. with 2 at OSC. Scholarly and professional organizations: Phi Kappa Phi: Pi Mu Epsilon, Sigma Gamma Epsilon: Phi Alpha Delta. Publications during past five years--None.

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| Snook, J.R. | Instr. | 1.00 | 10 |

B.S., M.S. Oregon State. Two years of work beyond highest degree. Field--Petrology. Experience--1/2 yr. with 1/6 at OSC. No publications during past five years.

MATHEMATICS

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|---|---|---|---|
| Lonseth, A.T. | Prof., Chairman | 1.00 | 10 |

A.B. Stanford: Ph.D. California. No further formal graduate work. Field--Mathematics. Experience--20 yrs. with 11 at OSC. Scholarly and professional organizations: Amer. Math Soc.: Math. Assn. Amer.: Assn. for Computing Machinery: Ore. Acad Sci.: Sigma Xi: Phi Kappa Phi: Pi Mu Epsilon. Two publications during past five years.

| | Rank | FTE | Months |
|---|---|---|---|
| Arnold, B.H. | Prof. | 1.00 | 10 |

B.S., M.S. Washington: Ph.D. Princeton. No further formal graduate work. Field--Abstract Algebra & Topology. Experience--17 yrs. with 12 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Math. Assn. Amer.: Ore. Acad. Sci. Pi Mu Epsilon. No publications during the past five years.

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|---|---|---|---|
| Gaskell, R.E. | Prof. | 1.00 | 10 |

A.B. Albion: M.S., Ph.D. Michigan. One year of Post Doctoral work. Field--Mathematics. Experience--22 yrs. with one-half year at OSC. Scholarly and Professional organizations: Amer. Math. Soc.: Math. Assn. Amer.: Soc. Ind. & Appl. Math.: AAAS: AAUP: ASEE: Phi Beta Kappa: Sigma Xi. Publications during past five years--4.

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|---|---|---|---|
| Goheen, H.E. | Prof. | 1.00 | 10 |

B.A., M.A., Ph.D Stanford. No further formal graduate work. Field--Mathematics. Experience--23 yrs. with 5 at OSC. Scholarly and professional organizations: Math. Assn. Amer.: Amer. Math. Soc.: Assn. for Computing Machinery. Publications during past five years--6.

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|---|---|---|---|
| Hostetter, I.M. | Prof. | 1.00 | 10 |

B.S., Ph.D. Washington. One year of work at Institute for Advanced Study. Field--Calculus of Variations. Experience--29 yrs. with 18 at OSC. Scholarly and Professional organizations: Amer. Math. Society: Sigma Xi: Publications during past five years--0.

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|---|---|---|---|
| Oberhettinger, F. | Prof. | 1.00 | 10 |

Ph.D. Berlin: Ph.D. (habil) Mainz. No further formal graduate work. Field--Mathematical physics. Experience--10 yrs. with 1 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Acad. of Sci.: Sigma Pi Sigma. Publications during past five years--7.

| | Rank | FTE | | Months |
|---|---|---|---|---|
| Poole, A.R. | Prof. | 1.00 | 9,000 | 10 |

B.A., M.A. British Columbia: Ph.D. Cal. Institute of Technology. No further formal graduate work. Field--Abstract Algebra. Experience--25 yrs. with 13 at OSC. Scholarly and Professional organizations: Math. Assn. Amer.: Amer. Math. Soc.: Sigma Xi: Pi Mu Epsilon: Ore. Acad. Sci. No publications during past five years.

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|---|---|---|---|---|
| Williams, G.A. | Prof. | 1.00 | | 10 |

A.B. Illinois: A.M. California. Two and one-half years of work beyond highest degree. Field--Geometry. Experience--40 yrs. with 39 at OSC. Scholarly and professional organizations: Amer. Math. Assn.: Ore. Acad. Sci.: Pi Mu Epsilon. No publications during past five years.

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|---|---|---|---|---|
| Kirkham, W.J. | Assoc. Prof. | 1.00 | | 10 |

A.B., M.A., Ph.D. Indiana. No further formal graduate work. Field--Statistics. Experience--27 yrs. with 24 at OSC. Scholarly and professional organizations: None. No publications during past five years.

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|---|---|---|---|---|
| Reifenberg, E.R. | Assoc. Prof. | 1.00 | | 10 |

M.A. Cambridge.
No further formal graduate work. Field--Area. Experience--10 years with this year being first at OSC. Scholary and Professional organizations: Cam. Phil. Soc.: L.M.S. Publications during past five years--2.

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|---|---|---|---|---|
| Saunders, R.B. | Assoc. Prof. | 1.00 | | 10 |

A.B. Whitman: M.A., Ph.D. Minnesota. No further formal graduate work. Field--Approximation Theory. Experience--18 yrs. with 13 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Math. Assn. of Amer.: Soc. Ind. & Appl. Math.: N.W. Computing Assn.: Ore Acad. Sci.: Amer. Assn. Univ. Professors. No publications during past five years.

| | Rank | FTE | Months |
|---|---|---|---|
| Buschman, R.G. | Asst. Prof. | 1.00 | 10 |

B.A. Reed: M.A. Oregon: Ph.D. Colorado. No further formal graduate work. Field--Integral transforma tions. Experience--6 1/2 yrs. with 1 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Math Assn. Amer.: AAUP: Indian Math. Soc.: Societe Mathematique de France. Publications during past five years--8.

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|---|---|---|---|
| Godard, R.H. | Asst. Prof. | 1.00 | 10 |

B.S. Oregon State: M.A. Iowa. About one year of work beyond highest degree. Field--Mathematics Education. Experience--20 yrs. with 9 at OSC. Scholarly and professional organizations: Centr. Assn. Sci. and Math. Teachers: Nat'l Council Teachers of Math.: Ore Council Teachers Math.: Nat'l Ed. Assn.: Pi Mu Epsilon: Kappa Delta Pi: Phi Delta Kappa: Phi Kappa Phi. No publications during past five years.

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|---|---|---|---|
| Groemer, H. | Asst. Prof. | 1.00 | 10 |

Ph.D. Innsbruck (Austria). One year of work beyond highest degree. Field--Number theory. Experience--4 yrs. with 2 at OSC. Scholarly and professional organizations: Innsbrucker Mathematische Gesellschaft. Publications during past five years--7.

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|---|---|---|---|
| Reynolds, R.R. | Asst. Prof. | 1.00 | 10 |

B.Ed Chicago Teachers: M.S. Oklahoma A&M. Three years of work beyond highest degree. Field--Mathematics. Experience--17 yrs. with 4 at OSC. Scholarly and professional organizations:Amer. Math. Soc. Publications during past five years--4.

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|---|---|---|---|
| Stalley, R.D. | Asst. Prof. | 1.00 | 10 |

B.S. and M.A. Oregon State: Ph.D. Oregon. No further formal graduate work. Field--Number theory. Experience--8 yrs. with 3 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Math. Assn. Amer.: Sigma Xi: Amer. Assn. Univ. Prof.:

| | Rank | FTE | Months |
|---|---|---|---|
| Stalley, cont. | Pi Mu Epsilon: Sigma Pi Sigma.. Publications during past five years--3. | | |
| Bakkum, F.S. | Instr. | 1.00 | 10 |
| | B.A. Grinnell: M.A. Cornell. No further formal graduate work. Field--Snyders Geometry. Experience--35 yrs. with 17 at OSC. Scholarly and professional organizations: Pi Mu Epsilon: Pi Lambda Theta. No publications during past five years. | | |
| Defenbach, J.M. | Instr. | 1.00 | 10 |
| | B.A. Eastern Washington College of Education: M.S. Oregon State. Six months of work beyond highest degree. Field--Analysis. Experience--4 yrs. with 4 at OSC. Scholarly and professional organizations: Pi Mu Epsilon. No publications during past five years. | | |
| Flood, E.O. | Instr. | 1.00 | 10 |
| | B.S., M.S. Oregon State. No further formal graduate work. Field--Mathematics. Experiene--22 yrs. with 5 at OSC. Scholarly and professional organizations--None. No publications during past five years. | | |
| Hermann, J. | Instr. | .50 | 10 |
| | C.E. Cornell. No further formal graduate work. Field--Mathematics. Experience--5 yrs. with 3 at OSC. Scholarly and professional organizations: Cornell Soc. of Engineers. No publications during past five years. | | |
| McFarland, J. | Instr. | .65 | 10 |
| | B.S. Denison: M.S. Oregon State. Five years of work beyond M.S. Field--Analysis. Experience--3 yrs with 3 at OSC. Scholarly and professional organizations: Phi Beta Kappa: Math. Assn. Amer.: Amer. Math. Soc. Publications during past five years--1. | | |
| Overholser, J. | Instr. | 1.00 | 10 |
| | A.B. California (Los Angeles): M.A. Redlands. Three years of work beyond highest degree. Field--Operations Analysis. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Overholser, cont. | Experience--7 yrs. with 5 at OSC. Scholarly and professional organizations: Phi Beta Kappa: Pi Mu Epsilon: Amer. Assn. Univ. Professors. No publications during past five years. | | |
| Reynolds, Nan | Instr. | .50 | 10 |
| | M.S. Oklahoma State: B.A. Oklahoma College for Women. Fifteen months of work beyond highest degree. Field--Analysis. Experience--20 yrs. with 4 at OSC. Scholarly and professional organizations: Pi Mu Epsilon. One publications during past five years. | | |
| Town, G.G. | Instr. | .75 | 10 |
| | B.S., M.S. Wisconsin. Four years of work beyond highest degree. Field--Analysis. Experience--6 yrs. with 2 at OSC. Scholarly and professional organizations: Amer. Math. Soc.: Soc. Ind. & Appl. Math.: Math. Assn. of Amer.: N.W. Computing Assn. No publications during past five years. | | |
| Tucker, R.R. | Instr. | .50 | 10 |
| | B.S. Washington: M.S. Oregon State. Two years of work beyond highest degree. Field--Analysis. Experience--5 yrs. with 5 at OSC. Scholarly and professional organizations: None. No publications during past five years. | | |
| Wyse, F.O. | Instr. | 1.00 | 10 |
| | A.B. Harvard: M.A. Princeton. One year of work beyond highest degree. Field--Modern algebra. Experience--6 yrs. with 1 at OSC. Scholarly and professional organizations: Amer. Math. Soc: Phi Beta Kappa. No publications during past five years. | | |
| NATURAL RESOURCES | | | |
| Jensen, J.G. | Prof. | .50 | 10 |
| | A.B. Western Washington: M.A., Ph.D. Clark. No further formal graduate work. Field--Climatology. Experience--26 yrs. with 14 at OSC. Scholarly and professional organizations: Assn. Amn. Geographers: Assn. Pac. Coast. Geographers. Publications during past five years--15. | | |

| | Rank | FTE | | Months |
|---|---|---|---|---|
| Highsmith, R.M. | Prof. | .75 | 9,560 | 10 |

B.A. Central Washington College: M.A., Ph.D. Washington. No further formal graduate work. Field--Geography--physical and agriculture. Experience--14 yrs. with 13 at OSC. Scholarly and professional organizations: Assn. Amer. Geography: Nat'l Council for Geographic Education: Assn. of Pac. Coast Geographers: Ore. Acad. Sci. Publications during past five years--15.

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|---|---|---|---|---|
| Heintzelman, O.H. | Assoc. Prof. | .25 | | 10 |

B.A. Central Washington College: M.A., Ph.D. Washington. Three years of work beyond highest degree. Field--Geography. Experience--28 yrs. with 10 at OSC. Scholarly and professional organizations: AAUP: Assn. Amer. Geographers: Nat'l Council Geographic Education: Assn. Pac. Coast Geographers: Ore. Acad. Sci. Publications during past five years--5.

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|---|---|---|---|---|
| Rudd, R.D. | Asst. Prof. | .50 | | 10 |

B.S. Indiana State Teachers College, M.S. Wisconsin: Ph.D. Northwestern University No further formal graduate work. Field--Physical Geography. Experience--10 yrs. with 2 1/4 at OSC. Scholarly and professional organizations: Sigma Xi: Assn. Amer. Geographers: Assn. Pac. Coast Geog.: Ore. Acad. Sci. Ore. Branch Amer. Meteorological Soc. Publications during past five years - 7.

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|---|---|---|---|---|
| Jack, J. | Instr. | .25 | | 10 |

B.S. Southern Oregon College. Two and 2/3 years of work beyond highest degree. Field--Geography and Related Science. Experience--3 yrs. with 3 at OSC. Scholarly and professional organizations: Ore. Council for Geographic Education: Assn. Amer. Geographers: Gamma Theta Upsilon. No publications during past five years.

| | Rank | FTE | Months |
|---|---|---|---|
| **OCEANOGRAPHY** | | | |
| Burt, Wayne V. | Prof. Chairman | .25 | 12 |
| | B.S. Pacific: M.S., Ph.D. Scripps Institution of Oceanography: Certificate in Meteorology Naval Academy Post Graduate School. No further formal graduate work. Field--Physical Oceanography. Experience--17 yrs. with 6 at OSC. Scholarly and professional organizations: Amer. Meteor. Soc.: Amer. Geophysical Union: Amer. Soc. Limnology & Oceanog.: Sigma Xi: Pi Mu Epsilon. Publications during past five years--12. | | |
| Frolander, H.F. | Assoc. Prof. | .47 | 12 |
| | B.Ed Rhode Island College of Education: Sc.M. Brown University: Ph.D. Brown. No further formal graduate work. Field--Biological Oceanography. Experience--7 yrs. with this being first year at OSC. Scholarly and professional organizations: Phi Sigma: Sigma Xi: Amer. Soc. Limnology & Oceanog. Publications during past five years--4. | | |
| **PHYSICS** | | | |
| Yunker, E.A. | Prof., Chairman | 1.00 | 12 |
| | A.B. California: Ph.M. Wisconsin: Ph.D. Stanford. No further formal graduate work. Field--Atmospheric electricity. Experience--32 yrs. with 30 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: AAAS: Inst. Radio Engr.: Amer. Assoc. Phys. Teach.: Ore. Acad. Sci.: Sigma Xi: Eta Kappa Nu: Sigma Pi Sigma: Phi Kappa Phi. No publications during past five years. | | |
| Brady, J.J. | Prof. | .75 | 10 |
| | A.B. Reed: M.A. Indiana: Ph.D. California at Berkeley. No further formal graduate work. Field--Photoelectricity. Experience--27 yrs. with 22 at OSC. Scholarly and professional organizations: Fellow AAAS: Fellow Amer. Phys. Soc.: A.A. Physics Teachers: Sigma Xi: Phi Kappa Phi: Amer. Assn. Univ. Professors. Two publications during past five years. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Dempster, R.R. | Prof. | 1.00 | 10 |

A.B. California (Berkeley): M.S., Ph.D. California. No further formal graduate work. Field--Physics & astrophysics. Experience--25 yrs. with 15 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: Amer. Assn. Physics Teachers: Sigma Pi Sigma: Sigma Xi: U.S. Naval Institute: Amer. Astronomical Soc.: Soc. of Nuclear Medicine. No publications during past five years.

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|---|---|---|---|
| Decker, F.W. | Assoc. Prof. | .50 | 10 |

A.E. Multnomah: B.S. Oregon State: M.S. New York: Ph.D. Oregon State. No further formal graduate work. Field--Meteorology. Experience--21 yrs. with 13 at OSC. Scholarly and professional organizations: Amer. Meteor. Soc.: AAAS: Amer. Geophysical Union: Amer. Assn. Phys. Teachers: Amer. Inst. Phys.: Amer. Water Works Assn.: Ore. Acad. Sci.: Sigma Xi: Sigma Pi Sigma: Pi Mu Epsilon. Publications during past five years--8.

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|---|---|---|---|
| Garman, J.C. | Assoc. Prof. | 1.00 | 10 |

B.S. Oregon State: Ph.M. Wisconsin. No further formal graduate work. Field--Light, radiation. Experience--35 yrs. with 35 at OSC. Scholarly and professional organizations: Tau Beta Pi: Sigma Pi Sigma: Eta Kappa Nu: Kappa Kappa Psi: Amer. Assn. Phys. Teachers: Optical Soc. Amer.: Corvallis Engineers Club. No publications during past five years but has revised two texts.

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|---|---|---|---|
| Nicodemus, D.B. | Assoc. Prof. | 1.00 | 10 |

B.A. DePauw: Ph.D. Stanford. No further formal graduate work. Field--X-Rays, Neutron physics. Experience--19 yrs. with 9 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: Sigma Xi: Phi Beta Kappa: Phi Kappa Phi. Publications during past five years--2.

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|---|---|---|---|
| Schecter, L. | Assoc. Prof. | 1.00 | 10 |

A.B., M.A., Ph.D. California (Berkeley). No further formal graduate work. Field--

| | Rank | FTE | Months |
|---|---|---|---|
| Schecter, cont. | Nuclear Physics. Experience--7 1/2 yrs. with 4 1/2 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: Sigma Xi. Publications during past five years--3. | | |
| Vinyard, H.R. | Assoc. Prof. | 1.00 | 10 |
| | B.S., M.S. Oregon State: Ph.D. Penn. State. No further formal graduate work. Field--Electrical conduction in dielectric materials. Experience--21 yrs. with 19 at OSC. Scholarly and professional organizations: AAAS: AAPT: Seism. Soc. Amer.: Eta Kappa Nu: Tau Beta Pi: Pi Mu Epsilon: Sigma Pi Sigma. No publications during past five years. | | |
| Burch, D.S. | Asst. Prof. | 1.00 | 10 |
| | B.S., M.S., Ph.D. Washington. No further formal graduate work. Field--Gaseous electronics. Experience--3 1/2 yrs. with 1 1/3 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: Amer. Inst. Physics: Amer. Assn. Physics Teachers. Publications during past five years--7. | | |
| Church, C.L. | Asst. Prof. | 1.00 | 10 |
| | A.B. Willamette: M.A. USC. No further formal graduate work. Field--Physics. Experience--32 yrs. with 15 at OSC. Scholarly and professional organizations: Phi Kappa Phi: Sigma Pi Sigma. No publications during past five years. | | |
| Forrest, R. | Asst. Prof. | 1.00 | 10 |
| | B.S., . M.S., Ph.D. Oregon. No further formal graduate work. Field--Nuclear Spectroscopy. Experience--1 yr. with 1/4 at OSC. Scholarly and professional organizations: Amer. Phys. Soc.: Sigma Xi. Publications during past five years--1. | | |
| Trigg, G.L. | Asst. Prof. | 1.00 | 10 |
| | A.B., A.M., Ph.D. Washington. Six | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Trigg, cont. | months of work beyond highest degree. Field--Theory of beta-decay. Experience--8 yrs. with 5 at OSC. Scholarly and professional organizations: Phi Beta Kappa: Sigma Xi: Pi Mu Epsilon: Sigma Pi Sigma: Amer. Phys. Soc. Publications during past five years--3. | | |
| Anderson, M.F. | Instr. | .30 | 10 |
| | B.S. Brigham Young: M.S. Oregon State. Three years of work beyond highest degree. Field--Gaseous Electronics. Experience--1 2/3 yrs. with 1 2/3 at OSC. Scholarly and professional organizations: Pi Mu Epsilon: Sigma Pi Sigma: Sigma Xi. No publications during past five years. | | |
| Sommerfeldt, R.W. | Instr. | .75 | 10 |
| | B.S. Oregon: M.S. Oregon State. Three years of work beyond highest degree. Field--Nuclear Physics. Experience--5 yrs. with 3 at OSC. Scholarly and professional organizations: Sigma Xi: Sigma Pi Sigma: Pi Mu Epsilon. No publications during past five years. | | |
| Tynes, A.R. | Instr. | 1.00 | 10 |
| | B.S. Montana State: M.S. Oregon State. Six years of work beyond highest degree. Field--Spectroscopy. Experience--8 yrs. with 5 1/2 at OSC. Scholarly and professional organizations: Sigma Pi Sigma: Pi Mu Epsilon: Sigma Xi. No publications during past five years. | | |
| STATISTICS | | | |
| Li, Jerome C.R. | Prof. | 1.00 | 10 |
| | B.S. Nanking: Ph.D. Iowa State. No further formal graduate work. Field--Statistics. Experience--16 yrs. with 14 at OSC. Scholarly and professional organizations: Amer. Stat. Assn.: Biometric Soc.: Inst. Math. Stat.: Ore. Acad. Sci: Sigma Xi. Publications during past five years--2. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Calvin, L.D. | Prof. | .08 | 12 |

B.S. Chicago: B.S., Ph.D. North Carolina State College. No further formal graduate work. Field--Statistics. Experience--11 yrs. with 6 at OSC. Scholarly and professional organizations: Amer. Stat. Assn.: Inst. Math. Stat.: Biometrics Soc.: Royal Stat. Soc.: Sigma Xi. Publications during past five years--13.

Link, R.F. — Assoc. Prof. 1.00 — 10

B.S., M.A. Oregon: M.A., Ph.D. Princeton. No further formal graduate work. Field--Mathematical Statistics. Experience--9 yrs. with 4 at OSC. Scholarly and professional organizations: Amer. Stat. Assn.: Inst. Math. Stat.: Operators Res. Soc. Amer. No publications during past five years.

Peterson, R.G. — Assoc. Prof. .08 — 12

B.S. Iowa State: M.S. Iowa State: Ph.D. North Carolina State. No further formal graduate work. Field--Biometry. Experience--6 yrs. with 4 at OSC. Scholarly and professional organizations: Biometrics Soc.: Amer. Soc. Agronomy: Sigma Xi: Phi Kappa Phi. No publications during past five years.

ZOOLOGY

Dornfeld, E.J. — Prof. 1.00 — 10

B.S. Marquette: M.A., Ph.D. Wisconsin. No further formal graduate work. Field--Cellular Biology. Experience--26 yrs. with 21 at OSC. Scholarly and professional organizations: AAAS: Amer. Soc. Zoologists: W. Soc. Naturalists: AAUP: Ore Acad. Sci.: N.Y. Acad. Sci.: Ore. Soc. Marine Biol.: Phi Kappa Phi: Sigma Xi: Phi Sigma: Gamma Alpha. Publications during past five years--12.

Allman, D.I. — Prof. .43 — 10

B.S. Michigan State Normal: M.S., Ph.D. Michigan. No further formal graduate work. Field--Public health. Experience--31 yrs.

| | Rank | FTE | Months |
|---|---|---|---|
| Allman, cont. | with 22 yrs. at OSC. Scholarly and professional organizations: Kappa Delta Pi: Delta Omega: Sigma Delta Psi. Publications during past five years--1. | | |
| Anderson, C.L. | Prof. | .20 | 10 |
| | B.S., M.S., Dr.P.H., Michigan. One year of work beyond highest degree. Field--Physiology, Public Health. Experience--28 yrs. with 11 at OSC. Scholarly and professional organizations: AAAS: Amer. Genetic Assn.: Amer. Pub. Health Assn. (Fellow): Sigma Xi: Phi Kappa Phi: Soc. for Res. in Child Development (Fellow). Publications during past five years--7. | | |
| Gordon, K.L. | Prof. | 1.00 | 10 |
| | B.A. Colorado: M.A. Missouri: Ph.D. Cornell. No further formal graduate work. Field--Ornithology, Mammalogy. Experience--32 yrs. with 32 at OSC. Scholarly and professional organizations: Amer. Soc. Mammalogist: N.W. Bird and Mammal Soc. No publications during past five years. | | |
| Hillemann, H.H. | Prof. | 1.00 | 10 |
| | B.A. Marquette: M.A. Wisconsin: Ph.D. Wisconsin. No further formal graduate work. Field--Developmental Anatomy and Physiology. Experience--25 yrs. with 13 1/3 at OSC. Scholarly and professional organizations: AAAS: OAS: Phi Sigma: Sigma Xi: Phi Kappa Phi: Amer. Soc. Zoologists: NWSA: OSEA: AAUP. Publications during past five years--30. | | |
| Krueger, H.M. | Prof. | .40 | 12 |
| | A.B. Denver: M.A. Denver: Ph.D. Michigan. Post Ph.D. training from 1931 to 1945. Field--Physiology of Respiration. Experience--35 yrs. with 11 at OSC. Scholarly and professional organizations: Amer. Soc. Phar. & Exper. Therapeutics: Amer. Physiol. Soc.: Amer. Stat. Soc.: Soc. Exper. Biology & Medicine: Ore. Acad. Sci.: W. Section Amer. Soc. Animal Production: Swiss Physiol. Soc.: | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Krueger, cont. | Sigma Xi: Phi Lambda Upsilon: Phi Sigma: Pi Mu Epsilon: Eta Sigma Phi: USDA Reg. Res. Project W-1: USDA Res. Project W-46. Publications during past five years--32. | | |
| Pratt, I. | Prof. | 1.00 | 10 |
| | A.B. Emporia: M.S. Kansas State: Ph.D. Wisconsin. No further formal graduate work. Field--Parasitology & Invertebrate Zoology. Experience--21 yrs. with 14 at OSC. Scholarly and professional organizations: Amer. Soc. Parasitologists, Amer. Microscop. Soc.: Fellow Amer. Assoc. Adv. Sci.: Marine Biol. Assn. United Kingdom: Phi Kappa Phi: Sigma Xi: Phi Sigma: Ore Acad. Sci.: Ore. Marine Biol. Soc.: W. Soc. Natural. Publications during past five years--3. | | |
| Pritchard, A.W. | Assoc. Prof. | 1.00 | 10 |
| | A.B. Stanford: M.A. Stanford: Ph.D. Hawaii. No further formal graduate work. Field--Metabolism of Fish. Experience-- 7 yrs. with 7 at OSC. Scholarly and professional organizations: AAAS: W. Soc. Natur.: Amer. Soc. Zoologists. Publications during past five years--4. | | |
| Storm, R.M. | Assoc. Prof. | 1.00 | 10 |
| | B.E. Northern Illinois State Teachers: M.S., Ph.D. Oregon State. No further formal graduate work. Field--Zoology. Experience--10 yrs. with 10 at OSC. Scholarly and professional organizations: Sigma Xi: Amer. Soc. Ichthyologists & Herpetologists: Ore. Acad. Sci. Publications during past five years--7. | | |
| Hisaw, F.L. | Asst. Prof. | 1.00 | 10 |
| | B.S., M.S. Missouri: Ph.D. Harvard Three years of work beyond highest degree. Field--Physiology of Reproduction. Experience--4 yrs. with 1 at OSC. Scholarly and professional organizations: AAAS: Sigma Xi: Amer. Soc. Zoologists: Gamma Alpha: W. Soc. Natural. Publications during past five years--15. | | |

| | Rank | FTE | Months |
|---|---|---|---|
| Mohler, J.D. | Asst. Prof. | 1.00 | 10 |

A.B., A.M. Missouri: Ph.D. California. No further formal graduate work. Field--Genetics. Experience--4 yrs. at OSC. Scholarly and professional organizations: Sigma Xi: Phi Beta Kappa: Genetics Soc. Amer.: W. Soc. Natural.: Ore. Acad. Sci. Publications during past five years--2 abstracts.

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|---|---|---|---|
| Owczarzak, A. | Asst. Prof. | 1.00 | 10 |

B.S. Cornell: Ph.D. Wisconsin. No further formal graduate work. Field--Cytology. Experience--12 yrs. with 4 at OSC. Scholarly and professional organizations: AAAS: Sigma Xi: Amer. Soc. Zoologists: Phi Sigma. Publications during past five years--6.

2. Organization, meetings and committees.
   a. Without benefit of formal charter, constitution, rules and regulations, or other documents, the faculty of the School of Science legislates on curricula, faculty status, or any other matter which concerns the entire school of science. Matters of departmental curricula and organizations are reserved to the individual departments, while matters of Oregon State College interest are reserved to the Faculty Senate, upon which the School of Science has representation.
   b. Voting is restricted to all academic staff members with the rank of instructor or higher.
   c. The School of Science faculty is subdivided into departmental faculties, which also hold regular departmental meetings, and handle matters having to do with individual departments.
   d. School of Science faculty meetings are held monthly, under the chairmanship of the dean.
   e. Subjects for discussion and action are suggested by any member of the faculty. These subjects are listed for the September meeting, then carried on through the year. They include such things as "general requirements for all science curricula"; "faculty responsibility for student honesty": "college credit for remedial courses": "improved methods of instruction" etc.
   f. The Science faculty years ago voted down a motion to keep formal minutes, however the dean does take notes enough to carry out the decisions of the meetings.

g. Only the program committee of three is standing committee.
h. In recent years this body voted to require one year of physical science and one year of biological science of all science students: to require completion of a certain minimum of mathematics of all students in the school, etc.

3. Selection, promotion and dismissal.
   a. When a vacancy occurs on the staff, the chairman of that department canvasses the field and discusses the available candidates with certain of his staff. In large departments, this may be restricted to full professors: in small departments, all staff members may be consulted. The department recommendations, with credentials, etc. are submitted for the approval of the dean, the president, the chancellor to the State Board of Higher Education, which makes the final decision. Application forms, adopted for the whole state system of higher education, are used. Such a form is attached.
   b. See (a) above.
   c. Recommendations for promotion are made by department chairman, through the dean, president, and chancellor, to the State Board.
   d. Dismissal procedure follows the same pattern as for promotion. The staff member may request a hearing at any point in the procedure.

4. Teaching Load.
   a. For the first term of 1959-60, teaching loads are given below. Some cases of apparent imbalance result from:
      (1) loaning instructor to another department without changing book FTE.
      (2) varying departmental assignments for the three terms of the year, etc.
   b. The accurate determination of faculty-student ratio is difficult or impossible in a division which is not entirely self-contained. If we compare the 1,407 science majors (Fall, 1959) with the faculty FTE of 139.07, we arrive at a ratio of 1 : 10.11. But this is without significance, since it ignores courses taken in other schools by science majors, and also takes no account of "service" courses given by science staff. If we take the 9,717 students enrolled in science courses, and divide this by faculty FTE of 139.07, we arrive at 69.87. To arrive at a true faculty-student ratio, this 69.07 must be divided by the average number of courses that each student took. If he took five 3-credit courses, then the ratio would be about 1 : 14, which is approximately correct.

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes* |
|---|---|---|---|---|---|---|---|
| * WA with assistants : Chr Chairman : Res Research | | | | | | | |
| GENERAL SCIENCE (With 5 Graduate Assistants each .30FTE) | | | | | | | |
| Prof. Gilfillan | 0.10 | No classes | | | | | |
| Prof. Hansen | 0.25 | Thesis | 1 | 1 | | 1 | Chr 6hr Res |
| Prof. Williamson | 0.20 | No classes | | | | | |
| Assoc. P. Beer | 1.00 | Gen. Biol. | 7 | 10 | 4 | 323 | WA 5 hr Res |
| | | Bioecology | 3 | 5 | 3 | 15 | |
| Assoc. P. Crews | .25 | Phys. Sci. | 4 | 5 | 4 | 110 | WA |
| | | Adv. Phys. Sci. | 3 | 3 | 3 | 15 | |
| Asst. P. Fox | .30 | No classes | | | | | |
| Asst. P. Humphrey | 1.00 | Gen. Biol. | 7 | 10 | 4 | 207 | WA 7 hr Res |
| | | Readings in Sci. | 1 | 1 | 1 | 5 | |
| | | Hist. of Sci. | 2 | 2 | 2 | 14 | |
| | | Thesis-etc. | 1 | 1 | - | 6 | |
| Inst. Craven | .50 | Phy. Sci. | 6 | 9 | 4 | 72 | WA |
| BACTERIOLOGY (With 5 Graduate Assistants each .30 FTE) | | | | | | | |
| Prof. Elliker | .69 | Food San. Bac. | 4 | 6 | 4 | 25 | WA |
| | | Thesis-etc. | 20 | 7 | - | 7 | |
| Prof. Bollen | .33 | Soil Bac. | 4 | 8 | 4 | 14 | WA |
| | | Bact. Techn. | 4 | 7 | 5 | 15 | WA |
| | | Thesis-etc. | 6 | 2 | - | 2 | |
| Prof. Gilmour | .82 | Gen. Bac. | 3 | 10 | 4 | 152 | WA 15 hr Res |
| | | Bact. Physiol. | 3 | 1 | 1 | 3 | |
| | | Thesis-etc. | 6 | 2 | - | 2 | |
| Prof. Langton | .06 | No Classes | | | | | |
| Prof. Pilcher | 1.00 | Clin. Lab. Methods | 5 | 9 | 5 | 7 | 16 hr Res |
| | | Thesis-etc. | 24 | 7 | - | 7 | |
| Assoc. P. Anderson | .85 | Thesis-etc. | 5 | 3 | - | 3 | 18 hr Res |
| Asst. P. Koski | .20 | Comm. Health | 3 | 3 | 3 | 24 | |
| Asst. P. Parks | .16 | Thesis-etc. | 6 | 5 | - | 18 | 5 hr Res |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| BOTANY (With 3 Graduate Assistants, each .30 FTE) | | | | | | | |
| Prof. Young | .50 | Thesis-etc. | 5 | 7 | - | 21 | Chr |
| Prof. Dietz | .25 | Gen. Botany | 3 | 6 | 3 | 16 | |
| | | Thesis-etc. | 3 | 5 | - | 3 | |
| Prof. Milbrath | .15 | Virus Disease | 3 | 5 | 3 | 12 | |
| | | Thesis-etc. | 4 | 4 | - | 4 | |
| Prof. Roth | .45 | Mycology | 4 | 8 | 4 | 13 | |
| | | Thesis | 5 | 4 | - | 4 | |
| Prof. Smith | 1.00 | Plant Anat. | 4 | 8 | 4 | 14 | 25 hr Res |
| | | Thesis-etc. | 5 | 4 | - | 4 | |
| Prof. Vaughan | .16 | Thesis | 4 | 4 | - | 4 | |
| Assoc. P. Belkengren | .82 | Plant Phys. | 5 | 8 | 5 | 23 | 12 hr Res |
| | | Adv. Plant Phys. | 3 | 3 | 3 | 31 | |
| | | Res. Methods | 2 | 6 | 2 | 9 | |
| | | Thesis-etc. | 5 | 3 | - | 3 | |
| Assoc. P. Chilcote | .75 | Plant Ecology | 4 | 6 | 3 | 20 | |
| | | Adv. Plant Ecology | 3 | 5 | 3 | 31 | |
| | | Plant Geog. | 3 | 4 | 2 | 7 | |
| | | Thesis-etc. | 6 | 8 | - | 19 | |
| Assoc. P. Jensen | .24 | Thesis, etc. | 5 | 3 | - | 3 | 1 Res |
| Assoc. P. Jones | .75 | Gen. Botany | 6 | 12 | 3 | 46 | WA |
| Assoc. P. Phinney | .75 | Aquatic Plants | 3 | 7 | 3 | 42 | WA 10 hr Res |
| | | Morph. | 3 | 6 | 4 | 12 | |
| | | Thesis | 3 | 2 | - | 2 | |
| Asst. P. Brandt | .75 | Gen. Botany | 9 | 18 | 3 | 87 | WA |
| Asst. P. Cameron | .25 | Gen. Botany | 3 | 6 | 3 | 32 | WA |
| Asst. P. Deep | .75 | Plant Path. | 5 | 8 | 5 | 21 | WA |
| | | Res. Methods | 3 | 7 | 3 | 7 | |
| | | Thesis | 3 | 2 | - | 2 | |
| Asst. P. Raymer | .10 | Thesis-etc. | 3 | 2 | - | 2 | |
| Instr. Dennis | .49 | Adv. Syst. Bot. | 3 | 7 | 3 | 7 | 12 Res |
| Instr. Lund | 1.00 | No classes Laboratory preparation for all Botany courses | | | | | |
| Instr. Peek | 1.00 | Gen. Botany | 9 | 18 | 3 | 91 | |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| **CHEMISTRY** (With 40 Graduate Assistants) | | | | | | | |
| Prof. Christensen | 1.00 | Adv. Lab. Meth. | 1 | 1 | 1 | 18 | Chr. WA 4hr Res |
| | | Org. Chem. | 3 | 3 | 3 | 71 | |
| | | Thesis, etc. | 1 | 4 | - | 4 | |
| Prof. Butts | .50 | Biochem. | 9 | 9 | 4 | 89 | WA |
| Prof. Caldwell | 1.00 | Gen. Chem. | 5 | 8 | 3 | 137 | WA 6 hr. Res |
| | | Metal. Chem. | 3 | 6 | 3 | 10 | |
| Prof. Cheldelin | .50 | Thesis, etc. | 9 | 13 | - | 20 | 10 hr. Res |
| Prof. Clark | .85 | No classes | - | - | - | - | 38 hr. Res |
| Prof. Decius | 1.00 | Physic. Chem. | 3 | 9 | 1 | 18 | 3 hr. Res |
| | | Adv. Phys. Chem. | 3 | 3 | 3 | 12 | |
| | | Thesis, etc. | 5 | 7 | - | 6 | |
| Prof. Gilbert | 1.00 | Physic Chem. | 5 | 9 | 4 | 67 | WA |
| | | Chem. Lit. | 1 | 1 | 1 | 26 | |
| | | Chem. Thermo. | 3 | 3 | 3 | 19 | |
| | | Thesis etc. | 9 | 6 | - | 9 | |
| Prof. King | .40 | Top. Biochem. | 3 | 3 | 3 | 20 | 7 hr. Res |
| | | Thesis, etc. | 10 | 7 | - | 12 | |
| Prof. Kurth | .50 | Forest Prod. Chem. | 3 | 3 | 3 | 8 | |
| | | Thesis, etc. | 3 | 6 | - | 6 | |
| Prof. Logan | 1.00 | Gen. Chem. | 4 | 8 | 4 | 123 | WA 3 hrs. Res |
| | | Adv. Org. Chem. | 2 | 2 | 2 | 18 | |
| | | Thesis, etc. | 3 | 4 | - | 2 | |
| Prof. C.S. Pease | 1.00 | Organic Chem. | 7 | 13 | 5 | 64 | WA 3 hr. Res |
| | | Sur. Org. Chem. | 3 | 3 | 3 | 18 | |
| | | Org. Prep. | 3 | 9 | 2 | 13 | |
| Prof. Remmert | .14 | Biochem. | 3 | 6 | 4 | 27 | WA |
| Prof. Richardson | .10 | No classes | | | | | |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Prof. Scott | 1.00 | Chem. Theory | 4 | 5 | 3 | 69 | WA 6 hr. Res |
| | | Sur. Phys. Chem. | 3 | 3 | 3 | 28 | |
| | | Thesis, etc. | 1 | 5 | - | 5 | |
| Prof. Slabaugh | 1.00 | Gen. Chem. (Honors) | 5 | 9 | 3 | 45 | WA 17 hr. Res |
| | | Colloidal Chem. | 3 | 3 | 3 | 7 | |
| | | Thesis | 4 | 2 | - | 2 | |
| Prof. Wang | .50 | Rad. Tracer Meth. | 2 | 2 | 2 | 9 | WA 3 hr. Res |
| | | Org. Quant. Anal. | 1 | 1 | 1 | 6 | WA |
| | | Org. Rad. Tracer Techn. | 3 | 3 | 2 | 7 | |
| | | Thesis | 1 | 9 | - | 9 | |
| Prof. Williams | 1.00 | Gen. Chem. | 5 | 5 | 3 | 327 | WA 3 hr. Res |
| | | Chem. Micro. | 2 | 4 | 2 | 9 | WA |
| | | Thesis | 3 | 3 | - | 3 | |
| Assoc. P. Freund | 1.00 | Quant. Anal. | 4 | 5 | 4 | 57 | WA 12 hr. Res |
| | | Adv. Anal. Chem. | 3 | 3 | 3 | 16 | |
| | | Thesis, etc. | 2 | 9 | - | 18 | |
| Assoc. P. Hedberg | 1.00 | Gen. Chem. | 5 | 9 | 3 | 131 | WA 10 hr. Res |
| | | Selected Topics | 2 | 4 | 2 | 3 | |
| | | Thesis | 3 | 1 | - | 1 | |
| Assoc. P. Marvell | 1.00 | Org. Chem. | 3 | 3 | 3 | 23 | WA 13 hr. Res |
| | | Org. Chem. | 4 | - | 1 | 28 | WA |
| | | Org. & Agric. Biochem | 3 | - | - | 36 | WA |
| | | Theoretical Org. | 2 | 2 | 2 | 8 | |
| | | Thesis, etc. | 9 | 6 | - | 13 | |
| Assoc. P. Newburgh | .14 | Thesis | 1 | 7 | - | 7 | |
| Assoc. P. Norris | 1.00 | Gen. Chem. | 2 | 2 | 2 | 201 | WA 6 hr. Res |
| | | Adv. Inorg. Chem. | 2 | 2 | 2 | 11 | |
| | | Radiochem. | 2 | 2 | 2 | 20 | |
| | | Thesis, etc. | 4 | 4 | - | 15 | |
| Assoc. P. Reese | 1.00 | Qual. Anal. | 6 | 11 | 4 | 84 | WA 2 hr. Res |
| | | Inorg. Chem. Lab. | 1 | 5 | 1 | 22 | |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Asst. P. Parsons | 1.00 | Gen. Chem. Lec & Lab (TV film) | 4 | 3 | 3 | 88 | 4 hr. Res |
| | | Gen. Chem. | 3 | 5 | 3 | 139 | WA |
| | | Discrip. Inorg. Chem | 2 | 2 | 2 | 36 | |
| | | Thesis | 11 | 2 | - | 2 | |
| Instr. Bray | .60 | Gen. Chem. | 2 | 7 | 2 | - | |
| | | Gen. Chem. | 3 | 7 | 4 | - | |
| Instr. Humphreys | .50 | Gen. Chem. | 6 | 15 | 2 | - | |
| Instr. Meeker | | Glass Blowing | 3 | 8 | 2 | 11 | |
| Instr. Stevens | 1.00 | Gen. Chem. Lab. | 4 | 12 | 2 | - | |
| | | Chem. Micro. | 1 | 3 | 1 | - | |

ENTOMOLOGY (With One Graduate Assistant)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Prof. Ritcher | .50 | Fruit Insects | 3 | 4 | 3 | 5 | Chr. |
| Prof. Martin | 1.00 | Econ. Entomology | 4 | 6 | 4 | 13 | WA 2 hr. Res |
| | | Insect Ecology | 3 | 3 | 3 | 13 | |
| | | Thesis, etc. | 9 | 2 | - | 2 | |
| Assoc. P. Rudinsky | .50 | Prin. Forest Entom. | 3 | 4 | 3 | 9 | |
| | | Thesis, etc. | 14 | 5 | - | 7 | |
| Assoc. P. Stephen | .08 | No classes | | | | | |
| | | Thesis, etc. | 3 | 2 | - | 2 | |
| Assoc. P. Terriere | .08 | No classes | | | | | |
| | | Thesis | 1 | 1 | - | 1 | |
| Asst. P. Dickeson | .08 | No classes | | | | | |
| Asst. P. Krantz | .08 | Gen. Acarology | 3 | 5 | 3 | 7 | |
| | | Thesis | 5 | 1 | - | 1 | |
| Instr. Hasbrouck | .10 | No classes | | | | | |
| Instr. Lattin | .67 | Gen. Entomology | 3 | 4 | 3 | 7 | |
| | | Systematic Ent. | 3 | 6 | 2 | 14 | |
| | | Thesis, etc. | 6 | 2 | - | 15 | |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| GEOLOGY (With 5 Graduate Assistants) | | | | | | | |
| Prof. Allison | 1.00 | Geology | 3 | 3 | 3 | 63 | Chr. WA |
| | | Sedimentology | 4 | 9 | 5 | 29 | |
| Prof. Wilkinson | 1.00 | Mineralogy & Rock Study | 4 | 8 | 4 | 30 | WA |
| | | Rocks & Minerals | 3 | 5 | 3 | 19 | |
| | | Thesis, etc. | 2 | 4 | - | 9 | |
| Asst. P. Bostwick | 1.00 | Invertebrate Paleon. | 4 | 14 | 5 | 25 | 4 hr. Res |
| | | Micropaleontology | 4 | 8 | 6 | 2 | |
| | | Thesis | 1 | 1 | - | 1 | |
| Asst. P. Cummings | 1.00 | Geology | 3 | 3 | 3 | 33 | WA |
| | | Eng. Geology | 3 | 4 | 3 | 24 | |
| | | Sed. Petrology | 3 | 7 | 3 | 7 | |
| | | Thesis, etc. | 5 | 2 | - | 2 | |
| Asst. P. Koch | 1.00 | Phys. Geology | 3 | 3 | 3 | 55 | WA 16 hr. Res |
| | | Oil Geology | 3 | 3 | 3 | 23 | |
| | | Petr. Geology | 3 | 4 | 3 | 1 | |
| | | Thesis, etc. | 1 | 2 | - | 1 | |
| Instr. Cochran | 1.00 | Geology | 3 | 3 | 3 | 11 | WA 10 hr. Res |
| | | Life of the Past | 3 | 3 | 3 | 25 | |
| | | Prin. Stratigraphy | 4 | 6 | 4 | 4 | |
| | | Thesis, etc. | 2 | 1 | - | 8 | |
| Instr. Snook | 1.00 | Mineral Rock Study | 3 | 9 | 3 | 21 | WA |
| | | Petrography | 4 | 14 | 3 | 19 | |
| MATHEMATICS | | | | | | | |
| Prof. Lonseth | 1.00 | Diff. Equation-Math-Physics | 3 | 3 | 3 | 30 | Chr. 20 hr. Res |
| | | Thesis, etc. | 3 | 4 | - | 4 | |

| Rank & Name | FTE | Course | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Prof. Arnold | 1.00 | Finite Math. | 4 | 4 | 4 | 15 | |
| | | Matrices & Quadratic Forms | 3 | 3 | 3 | 21 | |
| | | Thesis, etc. | 1 | 1 | - | 19 | |
| Prof. Decius | (Loan from Chem) | Thesis, etc. | 3 | 3 | - | 4 | |
| Prof. Gaskell | .67 | Inter. Algebra (TV) | 3 | 3 | 3 | 12 | WA 6 hr. Res |
| | | Math. in Engr. & Phys | 3 | 3 | 3 | 26 | |
| Prof. Goheen | 1.00 | Matrices & Quadratic Forms | 3 | 3 | 3 | 20 | 15 hr. Res |
| | | Thesis, etc. | 4 | 4 | - | 11 | |
| Prof. Hostetter | 1.00 | Diff. & Integral Cal. | 4 | 4 | 4 | 29 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 26 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 16 | |
| | | Thesis, etc. | 3 | 2 | - | 1 | |
| Prof. Oberhettinger | 1.00 | Introd. Higher Anal. | 3 | 3 | 3 | 30 | 25 hr. Res |
| | | Thesis, etc. | 3 | 3 | - | 11 | |
| Prof. Poole | 1.00 | Linear Algebra | 3 | 3 | 3 | 29 | |
| | | Found. Elem. Math. | 3 | 3 | 3 | 13 | |
| | | Thesis, etc. | 4 | 4 | - | 22 | |
| Prof. Williams | 1.00 | Anal. Geom. & Cal. | 4 | 4 | 4 | 22 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 32 | |
| | | Diff. & Integral Cal. | 4 | 4 | - | 15 | |
| Assoc. P. Kirkham | 1.00 | Anal. Geom. & Cal. | 4 | 4 | 4 | 34 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 29 | |
| | | Probability | 3 | 3 | 3 | 37 | |
| Assoc. P. Reifenberg | 1.00 | Theory Function Complex Variables | 3 | 3 | 3 | 8 | 20 hr. Res |
| | | Thesis, etc. | 3 | 3 | - | 2 | |
| Assoc. P. Saunders | 1.00 | Diff. & Integral Cal. | 4 | 4 | 4 | 21 | |
| | | Diff. & Integral Cal. | 4 | 4 | - | 23 | |
| | | Diff. Equations | 3 | 3 | 3 | 29 | |

| Rank & Name | FTE | Courses | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Asst. P. Buschman | 1.00 | Diff. Equations | 3 | 3 | 3 | 34 | 11 hr. Res |
| | | Calculus (Applied) | 3 | 3 | 3 | 65 | WA |
| | | Thesis, etc. | 6 | 6 | - | 38 | |
| Asst. P. Godard | 1.00 | Elem. Math. | 3 | 3 | 3 | 14 | |
| | | Elem. Math. | 3 | 3 | - | 30 | |
| | | Elem. Math. | 3 | 3 | - | 24 | |
| | | Math. Sec. Teachers | 3 | 3 | 3 | 26 | |
| Asst. P. Groemer | 1.00 | Diff. & Integral Cal. | 4 | 4 | 4 | 25 | |
| | | Theory Probability | 3 | 3 | 3 | 5 | |
| | | Diff. Geometry | 3 | 3 | 3 | 10 | |
| Asst. P. Reynolds | 1.00 | Computer Coding | 3 | 3 | 3 | 50 | 10 hr. Res |
| | | Numerical Cal. | 3 | 3 | 3 | 21 | |
| | | Thesis, etc. | 4 | 4 | - | 8 | |
| Asst. P. Stalley | 1.00 | Diff. & Integral Cal. | 4 | 4 | 4 | 26 | |
| | | Cal. (Pure) | 3 | 3 | 3 | 22 | |
| | | Thesis, etc. | 6 | 4 | - | 26 | |
| Instr. Bakkum | 1.00 | College Algebra | 8 | 8 | 4 | 64 | |
| | | Diff. & Integral Cal. | 8 | 8 | 4 | 60 | |
| Instr. Defenbach | 1.00 | College Algebra | 8 | 8 | 4 | 62 | |
| | | Math. Bus. & Ind. | 3 | 3 | 3 | 22 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 27 | |
| Instr. Flood | 1.00 | Elem. Algebra | 8 | 8 | 4 | 45 | |
| | | College Algebra | 8 | 8 | 4 | 41 | |
| Instr. Herrmann | .50 | Elem. Algebra | 8 | 8 | 4 | 54 | |
| Instr. McFarland | .65 | College Algebra | 8 | 8 | 4 | 63 | 16 hr. Res |
| | | Diff. Equations | 3 | 3 | 3 | 30 | |
| Instr. Overholser | 1.00 | College Algebra | 8 | 8 | 4 | 36 | |
| | | Math. Bus. & Ind. | 3 | 3 | 3 | 24 | |
| | | Diff. & Integral Cal. | 4 | 4 | 4 | 17 | |
| Instr. Reynolds | .50 | Anal. Geom. & Cal. | 8 | 8 | 4 | 53 | |
| Instr. Town | .75 | Diff. Equations | 6 | 6 | 3 | 73 | |
| | | Computer Coding | 3 | 3 | 3 | 26 | |

| Rank & Name | FTE | Courses | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Instr. Tucker | .50 | College Algebra | 3 | 8 | 4 | 55 | |
| Instr. Wyse | 1.00 | Diff. & Integral Cal. | 4 | 4 | 4 | 27 | |
| | | Diff. Equations | 6 | 6 | 3 | 42 | |
| | | Thesis, etc. | 1 | 1 | - | 13 | |
| **NATURAL RESOURCES** (With 4 Graduate Assistants) | | | | | | | |
| Prof. Jensen | .50 | Res. of E. Pac. Basin | 3 | 3 | 3 | 14 | Chr. |
| | | Thesis, etc. | 6 | 7 | - | 27 | |
| Prof. Highsmith | .75 | Tech. Field Res. | 4 | 8 | 3 | 10 | WA |
| | | Nat. Res. of U.S. | 3 | 3 | 3 | 12 | |
| | | Field Tech. | 3 | 1 | 1 | 12 | |
| | | Thesis | 4 | 4 | - | 15 | |
| Assoc. Prof. Heintzelman | .25 | Nat. Res. World | 3 | 3 | 3 | 16 | |
| | | Thesis | 1 | 1 | - | 1 | |
| Asst. P. Rudd | .50 | Cartography | 3 | 6 | 3 | 18 | WA 4 hr. Res |
| | | Phys. Geog. Lab. | 1 | 2 | 2 | 19 | WA |
| | | Phys. Geog. | 3 | 3 | 3 | 26 | |
| | | Thesis | 1 | 1 | - | 3 | |
| **OCEANOGRAPHY** (No Graduate Assistants) | | | | | | | |
| Prof. Burt | .25 | Phys. Oceanog. | 3 | 3 | 3 | 20 | 22 hr. Res Chr. |
| Assoc. P. Frolander | .47 | Thesis, etc. | 6 | 10 | - | 14 | 23 hr. Res |
| **PHYSICS** (With 15 Graduate Assistants) | | | | | | | |
| Prof. Yunker | 1.00 | Thesis, etc. | 1 | 1 | - | 1 | Chr. |
| Prof. Brady | .50 | Mod. Physics | 2 | 2 | 2 | 125 | WA 20 hr. Res |
| | | Phys. Solid State | 3 | 3 | 3 | 13 | |
| | | Thesis | 2 | 6 | - | 6 | |

| Rank & Name | FTE | Courses | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Prof. Dempster | 1.00 | Field Theory | 3 | 3 | 3 | 14 | |
| | | Nuclear Physics | 3 | 3 | 3 | 50 | |
| | | Dynamics | 3 | 3 | 3 | 17 | |
| Prof. Ebbighausen | (On Loan) | Astronomy | 7 | 7 | 4 | 9 | |
| Assoc. P. Decker | .50 | Rud. Meteor. | 1 | 1 | 1 | 23 | 25 hr. Res WA |
| | | Synop. Meteor. | 2 | 2 | 2 | 25 | |
| | | Meteorology | 3 | 3 | 3 | 13 | |
| | | Thesis, etc. | 3 | 1 | - | 3 | |
| Assoc. P. Garman | 1.00 | Photog. | 6 | 6 | 6 | 27 | |
| | | Adv. Photog. | 3 | 1 | 1 | 3 | |
| | | Thesis, etc. | 3 | 4 | - | 2 | |
| Assoc. P. Nicodemus | 1.00 | Gen. Physics | 4 | 12 | 3 | 289 | WA 5 hr. Res |
| Assoc. P. Schecter | 1.00 | Electro-mag. Theory | 3 | 3 | 3 | 8 | 8 hr. Res |
| | | Thesis, etc. | 13 | 4 | - | 5 | |
| Assoc. P. Vinyard | 1.00 | Electronics | 2 | 2 | 2 | 14 | WA 8 hr. Res |
| | | Exp. Elec. High Freq. Meas. | 3 | 5 | 2 | 4 | |
| | | Electronics & Radio | 4 | 6 | 3 | 14 | |
| Asst. P. Burch | 1.00 | Mechanics | 3 | 3 | 3 | 10 | 8 hr. Res |
| | | Intro. Theory Phys. | 3 | 3 | 3 | 12 | |
| | | Thesis, etc. | 3 | 4 | - | 5 | |
| Asst. P. Church | 1.00 | Abridg. Gen. Phys. | 8 | 13 | 3 | 101 | WA |
| Asst. P. Forrest | 1.00 | Gen. Physics | 9 | 12 | 2 | -- | 10 hr. Res |
| Asst. P. Trigg | 1.00 | Engr. Physics | 5 | 8 | 3 | 247 | WA |
| | | Quantum Mech. | 3 | 3 | 3 | 6 | |
| Instr. Anderson | .60 | Gen. Physics | 6 | 8 | 2 | -- | |
| Instr. Sommerfeldt | .75 | Elec. & Magnetism | 7 | 11 | 4 | 28 | |
| Instr. Tynes | 1.00 | Geom. & Phys. Optics | 5 | 8 | 3 | 24 | |
| | | Engr. Physics | 3 | 4 | 2 | -- | |

| Rank & Name | FTE | Courses | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| STATISTICS (With 1 Graduate Assistant) | | | | | | | |
| Prof. Li | 1.00 | Stat. Techn. | 3 | 3 | 3 | 34 | Chr. |
| | | Stat. Inference | 6 | 6 | 3 | 108 | |
| | | Gen. Regression Anal | 3 | 3 | 3 | 27 | |
| Prof. Calvin | .08 | Thesis, etc. | 1 | 1 | - | 1 | |
| Assoc. P. Link | 1.00 | Stat. Techn. | 3 | 3 | 3 | 25 | |
| | | Operations Res. | 3 | 3 | 3 | 12 | |
| | | Theory of Stat. | 3 | 3 | 3 | 8 | |
| Assoc. P. Petersen | .08 | Thesis, etc. | 2 | 2 | - | 1 | |
| ZOOLOGY (With 13 Graduate Assistants) | | | | | | | |
| Prof. Dornfeld | 1.00 | Biology of the Cell | 3 | 5 | 3 | 13 | Chr WA 10 hr Res |
| | | Perspective in Mod. Zoology | 2 | 2 | 4 | 22 | WA |
| | | Thesis, etc. | 5 | 6 | - | 6 | |
| Prof. Allman | .43 | Elem. Human Anat. | 4 | 6 | 3 | 64 | WA |
| Prof. Gordon | 1.00 | Nat. Hist. Oregon | 3 | 8 | 3 | 49 | WA |
| | | Animal Ecology | 3 | 5 | 3 | 24 | WA |
| | | Thesis, etc. | 3 | 3 | - | 3 | 10 hr Res |
| Prof. Hillemann | 1.00 | Comp. Vert. Embry. | 5 | 5 | 4 | 42 | WA 17 hr Res |
| | | Organog. & Fetal Physiol. | 4 | 8 | 3 | 6 | |
| | | Thesis, etc. | 3 | 4 | - | 4 | |
| Prof. Krueger | .40 | Mammalian Physiol | 4 | 9 | 4 | 8 | 2 hr. Res |
| Prof. Pratt | 1.00 | Parasite of Man | 3 | 8 | 3 | 5 | WA 15 hr. Res |
| | | Parasite of Fish | 1 | 1 | 2 | 18 | WA |
| | | Thesis, etc. | 4 | 5 | - | 11 | |

| Rank & Name | FTE | Courses | Credit | Contact Hours | Prep | Enroll | Notes |
|---|---|---|---|---|---|---|---|
| Assoc. Prof. Pritchard | 1.00 | Physiology | 3 | 4 | 3 | 156 | WA 18 hr. Res |
| | | Comparative Physid | 4 | 7 | 3 | 33 | WA |
| | | Thesis, etc. | 2 | 4 | - | 4 | |
| Assoc. P. Storm | 1.00 | Herpetology | 3 | 5 | 3 | 18 | 16 hr. Res |
| | | Adv. Field Zoology | 2 | 4 | 2 | 2 | |
| | | Thesis, etc. | 3 | 5 | - | 5 | |
| Asst. P. Hisaw | 1.00 | Gen. Zoology | 3 | 5 | 3 | 207 | WA 15 hr. Res |
| | | Endocrinology | 3 | 3 | 3 | 9 | |
| | | Thesis | 3 | 2 | - | 2 | |
| Asst. P. Mayshark | .20 | Human Biology | 3 | 3 | 3 | 142 | WA |
| | | Human Biology Lab. | 1 | 4 | 1 | 34 | WA |
| Asst. P. Mohler | 1.00 | Genetics | 3 | 3 | 3 | 65 | 20 hr. Res |
| | | Theoretical Genetics | 3 | 3 | 2 | 11 | |
| Asst. P. Owczarzak | 1.00 | Comp. Vert. Histdogy | 4 | 9 | 6 | 19 | WA 15 hr. Res |
| | | Zoological Literature | 1 | 1 | 1 | 7 | |
| | | Thesis | 2 | 2 | - | 2 | |

J. Instruction

1. Provisions for Improvement.
   a. Determining instructional competence. Measurement of a man's research accomplishments is not easy, but determination of his instructional competence is even more difficult. The dean must rely on the evaluation by the department chairman, who in turn must work closely with other members of the department in getting an accurate estimate of instructional performance. Quantitative evaluations are almost impossible, but over a period of years, the dean will get a rather complete picture, about 80 per cent of which comes from the man's colleagues, the other 20 per cent directly or indirectly from students.
   b. In addition to the usual promotions and salary increases, the School of Science gives annually the Carter Award to the staff member, chosen by vote of the upper-division and graduate science students, as the most inspirational class room teacher.
   c. All departments in the School of Science have a well-organized program for training graduate assistants in each department. No such formal program exists for young instructors, however every such instructor is under the supervision of some older staff member who, informally, takes the responsibility of directing his teaching. No such program is followed for older instructors, unless they be new to our school.
   d. Each department, in seminars, considers constantly, possible improvement in teaching that particular subject. Problems of frequency of examinations, grade curves, etc. are studied on a campus-wide level.
   e. Course outlines are prepared and followed where a number of staff members teach different sections of the same course. In most other courses, the preparation of course outlines are optional with the instructor.

2. Improving Student Achievement.
   a. The adaptation of instruction to different abilities begins with the first week of the freshman year. Placement examinations in English and mathematics are taken by all entering freshmen. These students are then sectioned (in some departments) according to ability. This fall, an honors program was launched in the School of Science, to cover all four undergraduate classes. These students enroll in special honors sections in English, mathematics, chemistry and physics. In addition, they attend special tutoring sections in classes of four or five.

b. Scholastic success is, of course, the first consideration in awarding scholarships and fellowships. Membership in numerous student honor societies is eagerly sought. Students are also well aware that recommendations for placement at graduation will be based upon academic performance. I find that there is quite keen competition for grades at the College.

c. For many years 70 per cent of the School of Science students have rated about the middle mark in ability, as shown by the ACE test, with only 30 per cent below the middle. Also, a very high per cent of Science students are elected to Phi Kappa Phi, the all-campus honorary society.

d. During the year 1958-59, 1.9 per cent of science students were dropped for poor scholarship. This represents an average of 22 out of a student body of about 975 students each of the three terms.

e. During the same year, 7.6 per cent of all science majors were placed on probation. This represents an average of 77 students during each of the three terms. However, probation students were carried over from previous terms, so that about 15.7 per cent of all science majors were on probation.

f. No great effort is put forth to develop student leaders. They just rise up and take over. This campus has so many organizations, that opportunities for leadership are present on all sides.

K. Administration

1. Canvassing the field for candidates for a staff vacancy, is considered the duty of the officer to whom the man will be directly responsible. The President looks over the field for deans. The dean searches for a good man for chairman, and the chairman canvasses the field for his staff members. In each case, the President, the dean, or the department chairman, will consult the man's colleagues, as well as those who will be under his administration. The recommendation comes from the man who has made the canvass, and passes upward through the dean, president, chancellor, and to the State Board of Higher Education, which is the final appointing authority.

2. In the School of Science, all departments are administered by chairmen, on a continuing appointment, but without tenure. We experimented with a plan for chairmen to be elected by the department for a definite term. This plan was abandoned after having failed miserably in two departments.

3. If a department chairman appears to be unsatisfactory, the dean holds individual conferences with all staff members of that department above the rank of instructor, to determine the cause of the difficulty, if any. He may also confer with the chairmen of the other departments, if the difficulty appears to be in that direction. He then confers with the chairman himself, outlining the points at issue. If he feels that a change should be made, he will so recommend to the president, whence the recommendation goes to the chancellor and to the Board. The chairman may request a hearing at any point along the line.

4. The extent to which staff members are consulted, will vary from one department to another. In large departments, such consultation may be extended only to full professors. In small departments, each staff member may be brought in. There exists on the campus an elected committe of the Faculty Senate which is consulted by the President, whenever a new dean is to be selected. In the past, a similar committee has been selected to represent various campus groups, when a new president was to be chosen.

L. The Students

1. The enrollment by classes in the School of Science and the degrees granted by that school are shown below for the three years 1956-57, 1957-58, 1958-59. There is also shown the enrollments for the fall term of 1959-60.

1956-57

| | ENROLLMENTS | | | | | | DEGREES | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fr | So | Jr | Sr | Gr | TOTAL | A.B. B.S. | A.M. M.S. | Ph.D | TOTAL |
| General Science | 16 | 62 | 17 | 36 | 9 | 140 | 75 | 13 | -- | 88 |
| Bacteriology | 3 | 5 | 2 | 4 | 17 | 31 | 7 | 3 | -- | 10 |
| Botany | 1 | 1 | 3 | 2 | 27 | 34 | 2 | 1 | 4 | 7 |
| Chemistry | 27 | 22 | 10 | 15 | 67 | 141 | 9 | 8 | 7 | 24 |
| Entomology | 1 | 1 | 2 | 3 | 19 | 26 | 3 | 3 | -- | 6 |
| Geology | 22 | 26 | 11 | 13 | 8 | 80 | 11 | 3 | -- | 14 |
| Mathematics | 12 | 16 | 4 | 3 | 21 | 50 | 7 | -- | 4 | 11 |
| Natural Resources | -- | 7 | 3 | 6 | 7 | 23 | 5 | 3 | -- | 8 |
| Oceanography | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Physics | 30 | 22 | 9 | 16 | 17 | 94 | 15 | 5 | 1 | 21 |
| Science Education | 5 | 12 | 5 | 9 | -- | 31 | -- | -- | -- | -- |
| Statistics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zoology | 1 | 2 | 2 | 2 | 17 | 24 | 1 | 5 | 3 | 9 |
| Pre-Medical | 28 | 26 | 13 | 11 | -- | 78 | -- | -- | -- | -- |
| Pre-Vet-Medical | 23 | 7 | 1 | 1 | -- | 32 | -- | -- | -- | -- |
| Pre-Dental | 23 | 34 | 7 | 3 | -- | 67 | -- | -- | -- | -- |
| Pre-Nursing | 43 | 16 | -- | -- | -- | 59 | -- | -- | -- | -- |
| Medical Technology | 7 | 13 | 4 | 3 | -- | 27 | 3 | -- | -- | 3 |
| TOTALS | 242 | 266 | 93 | 127 | 209 | 937 | 138 | 44 | 19 | 201 |

1957-58

| | ENROLLMENTS | | | | | | DEGREES | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fr | So | Jr | Sr | Gr | TOTAL | A.B. B.S. | A.M. M.S. | Ph.D | TOTAL |
| General Science | 22 | 50 | 54 | 27 | 68 | 221 | 69 | 59 | -- | 128 |
| Bacteriology | 2 | 8 | 3 | 2 | 20 | 35 | 1 | 5 | 3 | 9 |
| Botany | 1 | 1 | 2 | 3 | 30 | 37 | 3 | -- | 4 | 7 |
| Chemistry | 25 | 21 | 22 | 15 | 88 | 171 | 15 | 11 | 5 | 31 |
| Entomology | 3 | -- | 2 | 1 | 21 | 27 | 2 | 2 | 6 | 10 |
| Geology | 23 | 30 | 15 | 18 | 8 | 94 | 14 | 3 | -- | 17 |
| Mathematics | 16 | 14 | 5 | 9 | 23 | 67 | 10 | 1 | 2 | 13 |
| Natural Resources | 1 | 8 | 5 | 5 | 8 | 27 | 3 | 6 | -- | 9 |
| Oceanography | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Physics | 33 | 19 | 18 | 10 | 21 | 101 | 14 | 5 | 1 | 20 |
| Science Education | 3 | 9 | 26 | 13 | -- | 51 | -- | -- | -- | -- |
| Statistics | -- | -- | -- | -- | 1 | 1 | -- | -- | -- | -- |
| Zoology | 9 | 3 | -- | 2 | 17 | 31 | 2 | 3 | 5 | 10 |
| Pre-Medical | 33 | 14 | 14 | 8 | -- | 69 | -- | -- | -- | -- |
| Pre-Vet-Medical | 12 | 12 | 3 | -- | -- | 27 | -- | -- | -- | -- |
| Pre-Dental | 36 | 17 | 11 | 6 | -- | 70 | -- | -- | -- | -- |
| Pre-Nursing | 30 | 33 | 2 | -- | -- | 65 | -- | -- | -- | -- |
| Medical Technology | 12 | 11 | 5 | -- | -- | 28 | 8 | -- | -- | 8 |
| TOTALS | 261 | 250 | 187 | 119 | 305 | 1122 | 141 | 95 | 26 | 262 |

1958-59

| | ENROLLMENTS | | | | | | DEGREES | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fr | So | Jr | Sr | Gr | TOTAL | A.B. B.S. | A.M. M.S. | Ph.D | TOTAL |
| General Science | 24 | 57 | 70 | 42 | 64 | 257 | 92 | 59 | -- | 151 |
| Bacteriology | 5 | 2 | 5 | 7 | 17 | 36 | 8 | 5 | 1 | 14 |
| Botany | 1 | -- | 3 | 3 | 34 | 41 | 3 | 6 | 5 | 14 |
| Chemistry | 61 | 24 | 25 | 22 | 93 | 225 | 16 | 8 | 8 | 32 |
| Entomology | -- | -- | 3 | 3 | 20 | 26 | 2 | 3 | 2 | 7 |
| Geology | 12 | 28 | 18 | 19 | 11 | 88 | 20 | 2 | -- | 22 |
| Mathematics | 19 | 17 | 17 | 14 | 33 | 100 | 19 | 5 | 1 | 25 |
| Natural Resources | 3 | 11 | 14 | 12 | 9 | 49 | 15 | 2 | -- | 17 |
| Oceanography | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Physics | 63 | 25 | 21 | 20 | 21 | 150 | 12 | 1 | 1 | 14 |
| Science Education | 9 | 7 | 20 | 22 | -- | 58 | -- | -- | -- | -- |
| Statistics | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Zoology | 7 | 5 | 5 | 2 | 28 | 47 | 1 | 4 | 5 | 10 |
| Pre-Medical | 23 | 18 | 13 | 4 | -- | 58 | -- | -- | -- | -- |
| Pre-Vet-Medical | 12 | 9 | 2 | -- | -- | 23 | -- | -- | -- | -- |
| Pre-Dental | 24 | 18 | 13 | 5 | -- | 60 | -- | -- | -- | -- |
| Pre-Nursing | 42 | 26 | 2 | 1 | -- | 71 | -- | -- | -- | -- |
| Medical Technology | 11 | 13 | 8 | 1 | -- | 33 | 3 | -- | -- | 3 |
| TOTALS | 316 | 260 | 239 | 177 | 330 | 1322 | 191 | 95 | 23 | 309 |

1959-60 (Fall Term)

| | ENROLLMENTS | | | | | | DEGREES | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fr | So | Jr | Sr | Gr | TOTAL | A.B. B.S. | A.M. M.S. | Ph.D | TOTAL |
| General Science | 24 | 63 | 90 | 51 | 65 | 293 | | | | |
| Bacteriology | 3 | 5 | 9 | 5 | 18 | 40 | | | | |
| Botany | 2 | -- | 1 | 4 | 39 | 46 | | | | |
| Chemistry | 48 | 31 | 26 | 23 | 107 | 235 | | | | |
| Entomology | 1 | -- | 4 | 3 | 21 | 29 | | | | |
| Geology | 20 | 21 | 22 | 13 | 11 | 87 | | | | |
| Mathematics | 26 | 24 | 25 | 27 | 41 | 143 | | | | |
| Natural Resources | -- | 6 | 11 | 11 | 12 | 40 | | | | |
| Oceanography | -- | -- | -- | -- | 1 | 1 | | | | |
| Physics | 54 | 38 | 18 | 17 | 34 | 161 | | | | |
| Science Education | 5 | 16 | 18 | 21 | -- | 60 | | | | |
| Statistics | -- | -- | -- | -- | 1 | 1 | | | | |
| Zoology | 5 | 6 | 4 | 5 | 27 | 47 | | | | |
| Pre-Medical | 25 | 17 | 11 | 8 | -- | 61 | | | | |
| Pre-Vet-Medical | 8 | 6 | 3 | 1 | -- | 18 | | | | |
| Pre-Dental | 17 | 22 | 9 | 4 | -- | 52 | | | | |
| Pre-Nursing | 22 | 28 | 1 | -- | -- | 51 | | | | |
| Medical Technology | 13 | 14 | 10 | 1 | -- | 38 | | | | |
| TOTALS | 273 | 297 | 262 | 194 | 377 | 1403 | | | | |

2. The School of Science has a head counselor (Dr. Crews) who devotes 75 per cent of his time to this activity. Each department has designated one or more staff members, who serve as department counselors, under the supervision of Dr. Crews. Time allowance is made for this activity. Orientation is the objective of a few freshman courses (e.g. Chemistry Survey, Ch. 111, 112, 113.) Several years ago, an orientation course was established for all freshman science students, but it was not particularly successful, and was discontinued.

3. There are no separate loan funds in the School of Science or its departments. However, there are six undergraduate scholarships in the School, of which three are in chemistry, one in bacteriology, and one in geology. Currently there is an indeterminate number of scholarships provided by the National Science Foundation, and similar agencies. Graduate fellowship available to science students are discussed in Report III, and undergraduate scholarships available to all students in the College are listed in Report I.

4. The College does not attempt to centralize placement for its graduates, and neither has the School of Science tried to do so. Placement thus becomes the responsibility of individual departments, which frequently cooperate with other departments, within or without the School of Science, in arranging interviews, etc. We are moving toward some centralization of the campus program, but the main responsibility will remain with individual science departments to place science graduates.